

GENERAL INFORMATION
ON
DATA SHEET
CORNER NUMBERING
GROUND TO GRID REDUCTION
AND
LEAST SQUARES ADJUSTMENT

**GENERAL INFORMATION
ABOUT
MARK DATA SHEET**

BOX 1

MARK NAME: is a name that may be stamped on the monument (FIRST) or a point identifier (17122604).

MARK SET BY: Best information obtainable of who may have set mark.

DATE OF MARK: Best information obtainable of date that mark was set.

LOCATION: What section, township and range that mark is located.

REFERENCE NUMBER The reference document and number that has important information about mark at the time the G.P.S. survey was performed. (CS # = COUNTY SURVEY NUMBER) (OCRR # = OREGON CORNER RESTORATION RECORD NUMBER, DGMC # = DESCHUTES GEODETIC MAPPING CONTROL NUMBER, DESCHUTES CO.) (MF# = MICROFILM NUMBER ,JEFFERSON CO.) (OLCM = OREGON LAND CORNER MONUMENTATION, CROOK CO.)These records are on file in the County Surveyor's Office.

BOX 2

MARK SKETCH: A quick free hand sketch of mark to show general location and brief description.

BOX 3

PART 1 Self-explanatory

PART 2 All the needed information about the datum's and coordinate system to use for transformations.

PART 3 Latitude and longitude of the horizontal datum used.

Northing, easting, convergence and scale factor of the coordinate system used.

Ellipsoid height: height of mark above the reference ellipsoid

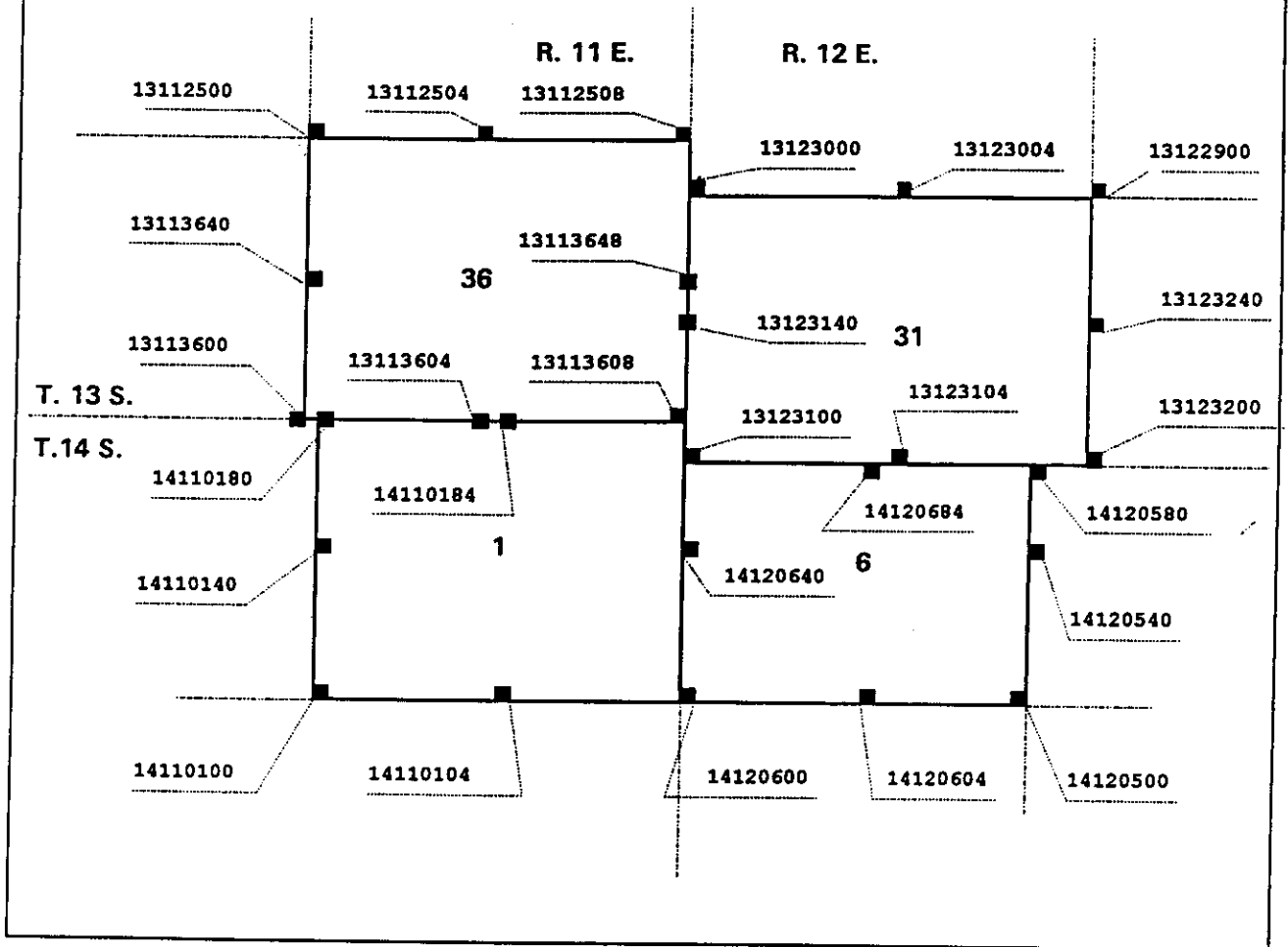
Orthometric height: height of mark on the vertical datum (elevation).

Geoid height: the difference between the reference ellipsoid and zero elevation of the vertical datum.

Combine factor: grid distance to ground distance factor.

One sigma error: the estimated error of uncertainty at the 68% confidence region.(FGCC Standard)

CORNER NUMBERING DIAGRAM



SECTION & QUARTER CORNER NAMING CONVENTION

MARK NAME: 17 12 23 4 0 A

- 17 Township 17 South of the Willamette Base Line
- 12 Range 12 East of the Willamette Principal Meridian
- 23 Section 23
- 4 4 X 10 chains North from SW. Cor. of Section 23.
- 0 0 X 10 chains East from SW. Cor. of Section 23.
- A More than one important corner in proximity.

Note: The 10 chains is more a fractional part than a distance.

Field Descriptors for the Ref Coords Module

<i>Ref Coords Field Description</i>	<i>Explanation</i>
Point ID	station identifier—up to 8 characters alphanumeric
Point Short Name	short name—up to 20 characters
Point Long Name	long station name—up to 50 characters
Latitude (decimal degrees)	latitude—decimal degrees with North/South flag
Longitude (decimal degrees)	longitude—decimal degrees with East/West flag
Ellipsoidal Height	ellipsoidal height in meters
Latitude (DegMinSec N/S)	latitude—degrees, minutes, and seconds with ° ' " symbols and North/South flag
Longitude (DegMinSec E/W)	longitude—degrees, minutes, and seconds with ° ' " symbols and East/West flag
Lat (No sym. DegMinSec)	latitude—degrees, minutes, and seconds with a space separating each field and North/South flag
Long (No sym. DegMinSec)	longitude—degrees, minutes, and seconds with a space separating each field and East/West flag

Geodetic Field Descriptors for the Adj Coords Module

<i>Adj Coords Field Description—Geodetic</i>	<i>Explanation</i>
Coordinate ID	station identifier—up to 8 characters alphanumeric
Point Name	short name—up to 20 characters
Latitude (decimal degrees)	latitude—decimal degrees with North/South flag
Longitude (decimal degrees)	longitude—decimal degrees with East/West flag
Ellipsoidal Height	ellipsoidal height in meters
Orthometric Height	height above vertical datum as modeled in the network adjustment
Height Separation	height difference (geoidal undulation) between the mathematical ellipsoid of GPS (WGS-84) and the physical vertical datum for the network, as computed in the network adjustment or derived from level information
Latitude (DegMinSec N/S)	latitude—degrees, minutes, and seconds with ° ' " symbols and North/South flag
Longitude (DegMinSec E/W)	longitude—degrees, minutes, and seconds with ° ' " symbols and East/West flag
Lat (No sym. DegMinSec)	latitude—degrees, minutes, and seconds with a space separating each field and North/South flag
Long (No sym. DegMinSec)	longitude—degrees, minutes, and seconds with a space separating each field and East/West flag



NOTE: *The list of available fields depends on the type and format of the selected coordinates. The export utilities display only those fields applicable to the current set of coordinates. For example, if you produce state plane coordinates during the network adjustment, Planar fields are shown in the field list. There are three possible coordinate types in the Adj Coords utility: Geodetic, Planar, and Cartesian.*

Planar Field Descriptors for the Adj Coords Module

<i>Adj Coords Field Description—Planar</i>	<i>Explanation</i>
Coordinate ID	station identifier—up to 8 characters alphanumeric
Point Name	short name—up to 20 characters
Easting	plane coordinate value, east component
Northing	plane coordinate value, north component
Ellipsoidal Height	ellipsoidal height in meters
Orthometric Height	height above vertical datum as modeled in the network adjustment
Height Separation	height difference (geoidal undulation) between the mathematical ellipsoid of GPS (WGS-84) and the physical vertical datum for the network, as computed in the network adjustment or derived from level information
Scale Factor	specifically for mapping projections—a multiplier used to convert ellipsoid distances to projection (grid) distances and vice versa
Grid Convergence (DegMinSec)	the angle between grid north on a mapping projection and the meridian of longitude at a given point; given here in degrees, minutes, and seconds
Grid Convergence	same as above, except in decimal degrees
Combined Factor	combined grid and elevation scale factor

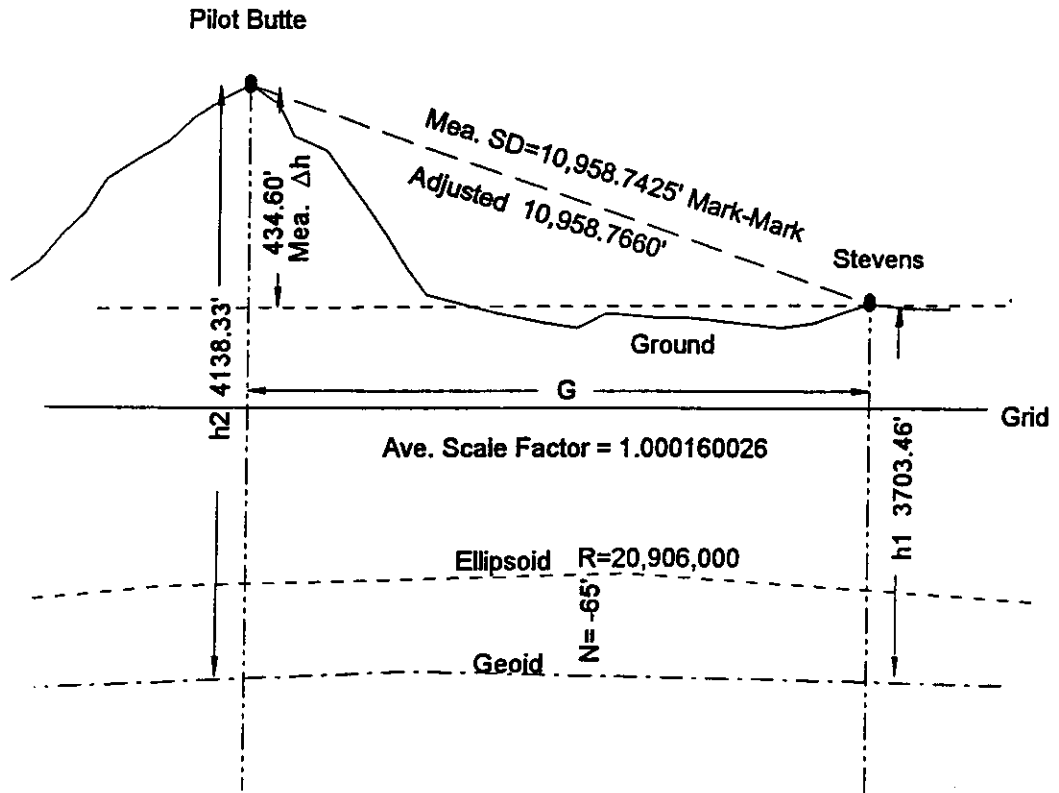


NOTE: *Planar or map projection coordinates are based upon a curved ellipsoid. A map projection is a mathematical projection of the curved ellipsoid surface onto a plane.*

Cartesian Field Descriptors for the Adj Coords Module

<i>Adj Coords Field Description—Cartesian</i>	<i>Explanation</i>
Coordinate ID	station identifier—up to 8 characters alphanumeric
Point Name	short name—up to 20 characters
X Coordinate	earth centered, earth fixed X coordinate
Y Coordinate	earth centered, earth fixed Y Coordinate
Z Coordinate	earth centered, earth fixed Z coordinate

Transformation of Mark to Mark Distance to Grid Distance



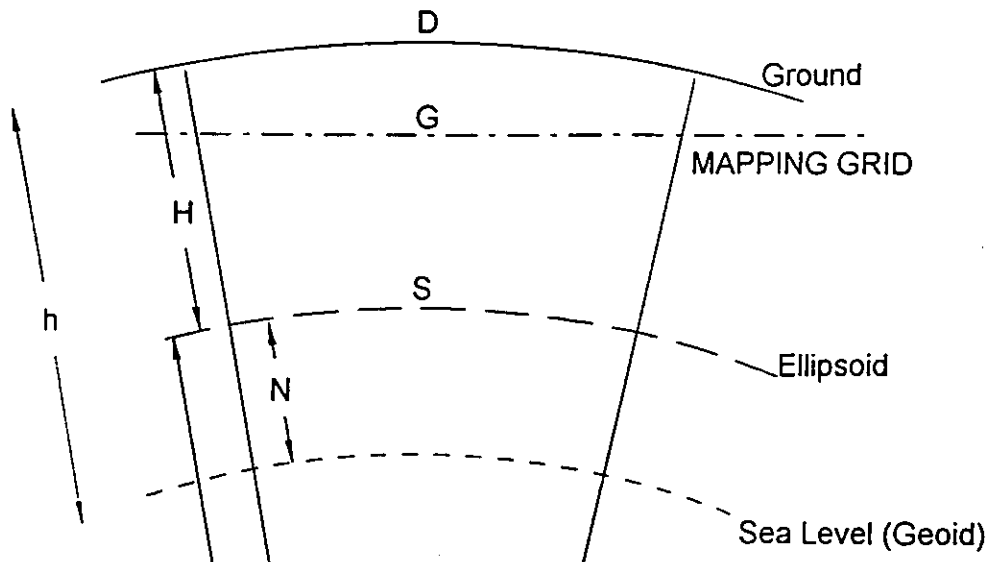
$$G = (SF) \left(\sqrt{\frac{SD^2 - \Delta h^2}{\left(1 + \frac{h_1 + N}{R}\right) \left(1 + \frac{h_2 + N}{R}\right)}} \right)$$

$$G = 1.000160026 \sqrt{\frac{10,958.7425^2 - 434.60^2}{\left(1 + \frac{3703.46 + (-65)}{20906000}\right) \left(1 + \frac{4138.38 + (-65)}{20906000}\right)}}$$

$$G = 1.000160026 \sqrt{\frac{119,905,160.0}{1.00036892}} = 1.000160026 \sqrt{119860941.3}$$

$$G = 1.000160026 \cdot 10,948.1022 = 10,949.8542'$$

SATISFACTORY APPROXIMATION OF GROUND TO GRID REDUCTION



Where D=Horizontal Distance
 G=Grid Distance
 S=Ellipsoid Distance
 H=Mean Elevation Above Ellipsoid
 h=Mean Elevation Above Geoid
 N=Mean Geoid Height
 R=Mean Radius of Earth
 SF=Ellipsoid to grid factor
 F1=Ground to ellipsoid factor
 F2=Ground to grid factor

FROM LA PINE TO MADRAS

N = -65 feet mean geoid height (NEGATIVE HEIGHT)
 R = 20,906,000 feet mean elevation (ELLIPSOID)

$$S = D \left(\frac{R}{R + h + N} \right) \quad H = h + N$$

$$F1 = \left(\frac{R}{R + h + N} \right) \quad F2 = SF \times F1$$

Center
of
Earth

NOTE: See NOAA Manual NOS NGS 5, State Plane Coordinate System of 1983 by James E. Stem, for more information on this subject

Below is the inverse of adjusted coordinates in our data base. As we can see that the measured slope distance from Pilot Butte to Stevens in the EC CARTESIAN column was adjusted by +0.0235 feet, when we add 0.0235 feet to the transformed distance that we computed from the measured slope distance it fits quite well with the inverse of the MAPPING PROJECTION coordinates.

In using a approximation for the radius of the ellipsoid and the geoid height with an average ground to grid factor at intervals for ever 100 feet of elevation should keep the transformation to 1 part to 200,000 or better in a local area.

For more information on this subject see NOAA Technical Memorandum NOS NGS-10 , USE OF CALIBRATION BASE LINES, by Charles J. Fronczek, Appendix I. The geometrical transformation of electronically measured distances.

Datum = NAD-83
 Coordinate system = User-Defined Transverse Mercator
 Zone = DESCHUTES COUNTY
 Linear unit = Internatl Foot

POINT	MAPPING PROJECTION	GEODETIC	EC CARTESIAN
Pt# 19 COORDINATES	N= 386640.6780 E= 3300025.6995	N 44°03'37.943010" W 121°16'59.648110"	X= -7822586.5374 Y=-12874379.0293
GIS 31 PILOT BUTTE		H 4073.9731F h 4138.3327F	Z= 14480943.1881
INVERSE:		Az=141°52'23.783806" NSFA=141°52'24.023877" _+ 0°00'00.244711" NSBA=321°53'28.357821" t-T Corr= +0.004639" Ell Dist= 10948.1255F Dist= 10949.8773F Delta H = -434.6198F Scale=1.000160017592 Delta h = -434.8681F	D X= +2830.3733 D Y= -8361.1757 D Z= -6494.1727 S D= 10958.7660 Gnd Dist= 10950.1443F Rad(_)= 20914559.5776F Skew Corr= -0.060692" GsFA=141°52'24.023893" Gsc Dist= 10948.1255F GsBA=321°53'28.357837"
Pt# 62 COORDINATES	N= 378026.9887 E= 3306786.1854	N 44°02'12.883064" W 121°15'27.117216"	X= -7819756.1641 Y=-12882740.2050
STEVENS		H 3639.3533F h 3703.4646F	Z= 14474449.0154

Getting the Most Out of Least Squares

by Sean Cunniff and Ron Sawyer

“Least squares! I don’t do that kind of survey— I haven’t done a large network in years. Most of our work is just *regular* survey work. Our compass rule works fine, just press a button and the whole thing’s balanced. Why would we want to use something as sophisticated as least squares? Anyhow, I’m not quite sure what it does.”

Does this sound familiar? Unfortunately, the least squares adjustment method seems to be a mysterious creature to most surveyors. It is frequently thought of as being difficult to learn, or not being applicable to “the type of surveys that I do.” The fact is that least squares is not difficult to understand once a few basic principles are explained; more importantly, it is applicable to nearly all types of survey work, including the small “regular” job. It does not require you to make major changes in your daily practice, although certain field procedures enhance its power.

In addition to producing the best adjustment of field data, least squares provides other benefits not even possible with other adjustment methods. It helps you to locate errors in your survey data, gives you an easy way to plan surveys, and provides a statement on the amount of uncertainty for every point in your network. Our goal in this article is to remove the mystery of least squares by explaining, in nonmathematical terms, some of the basic concepts, and to illustrate its application to a number of common surveying problems.

Exactly What Is Least Squares?

A least squares adjustment is a rigorous mathematical method for adjusting survey data. It has actually been used by surveyors for a number of years, but was generally implemented only on mainframe computers and was somewhat difficult to handle for the uninitiated user. With the advent of new high-speed, inexpensive personal computers and especially modern software techniques, least squares is now readily available to every surveyor.

As surveyors we have long recognized that adding extra angle and distance observations adds strength to our surveys and allows for error checking. But we also realize that these extra measurements make the resulting survey computations more complex. What can we do to resolve these redundant observations to arrive at a single set of coordinates for all our points? Some type of adjustment must be applied. In the case of interconnecting traverse loops, arriving at the single best solution can be difficult. In fact, how can you even define a “best” solution?

Various approximate adjustment methods such as the compass rule and transit rule have traditionally been used. But how, for example, do you resolve a multiloop traverse

with a compass rule adjustment? You probably attack one loop at a time, first “balancing” the angles by adding the same amount of correction to each angle, and then “correcting” the bearing and distance of each leg, based on some mechanical proportioning of the closure error. Then you move on to the next loop and repeat the process. When all the loops are adjusted, you call it quits if they all fit together pretty well. Otherwise, you might rebalance the loops in some other order to see if the fit gets better.

If this procedure sounds messy and potentially time-consuming, you are right. But even more importantly, it can be shown that the underlying logic of these approximate adjustments is wrong, even for a single traverse loop. Survey errors are random! These methods make assumptions about measurement errors accumulating in proportion to the lengths of traverse legs that just are not true—in fact, they can introduce distortions into the final coordinates that were not present in the original survey.

In addition, approximate adjustment methods provide no means of analyzing your survey. But, you ask, is not a traverse closure good enough? Not at all! It is like your accountant giving you a final bank balance for the year, but not giving you a breakdown of income and expenses by various categories. You would be hard pressed to determine exactly why you ended up where you did financially. Least squares gives you an itemized “accounting sheet” for your survey, showing exactly how each of your field observations fits into the overall survey.

What Does Least Squares Adjust And How?

As a surveyor, you know that all measurements contain errors. In fact, a measurement is only an estimate of the true value, which is never really known. The table below shows three types of errors commonly present in surveying data (although strictly speaking blunders are not errors), and three methods for handling them.

TABLE 1 - Error Types

Error Type	Method for Handling
Blunders (Mistakes, recording errors, etc.)	Eliminate
Systematic Errors (EDM calibration, etc.)	Compensate
Random Errors (Normal, unavoidable)	Adjust with Least Squares

Blunders (mistakes, recording errors, etc.) must be eliminated! No adjustment method can tolerate blunders, although least squares can help you detect and remove them from your field data. Systematic errors, such as in

Why We Use Least Squares

by Glenon J. Watson, L.S.

The story is all too familiar. You have the commission to survey a 150-acre farm. It is a routine job, or is it? This time there is a public highway crossing in one direction and a utility easement crossing in the other. Of course your code of practice requires you to show all the visible improvements on the property.

The solution is routine—traverse the perimeter, traverse the road, and traverse the utility line, then tie them all together. Easy, right? Easy enough in the field, but what happens when you compute and balance the control traverses? In the first loop you get 1 in 35,000 and one second per station in the angles. Great! The first cross-tie results in 1 in 15,000 and three seconds per station. OK? Probably. The second cross-tie produces 1 in 5,000 and 12 seconds per station. No good! Third cross-tie? Even worse.

What happened? We measured all the angles the same way, and we measured all the distances from each end of the line. They all checked. We checked all the abstractions. Twice. We looked them over again—nothing wrong. Sure, we picked up a rounding error here and there, but basically nothing is wrong. What should we do? Unfortunately, some of our peers will make it work, but we are not among them. What would you do?

We would routinely try other solutions. Solving different loops in different orders would often help. Perhaps we lost the 1 in 35,000 loop, as fictitious as it actually was, but we would also improve the third and fourth connections—most of the time. Sometimes we would go back in the field to look for something that really was not there. More often than not we would settle. The baselines met the specification, although they could and should have been better.

Have you ever noticed that the error is not on the first loop you solve, and often it is not on the second? It is the third and fourth connections that get you. There is a reason these connections are the ones that do not work. It is because the errors balanced into the first and second loops were balanced improperly. The method used was prejudiced—it hid the errors rather than balanced them. Some balancing methods put the errors where they will not get in the way—if you are lucky.

Even those of us fortunate enough to own a true least squares adjustment program for single-loop traverses only postpone the inevitable. Simply put, a least squares adjustment places the errors where they

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Least Squares In Practice

by Roger A. Frank, PLS

In late 1969 it was first introduced to least squares adjustments while working with the Orange County Surveyor's Office in Santa Ana, California. At that time, most of our regular surveys were still being computed with rotary calculators and trig tables with the aid of the compass rule to adjust and close our traverses.

Orange County was in the process of revalidating and densifying its horizontal control network. To adjust this network, the county had obtained a least squares program called Cosmos from the Canadian equivalent of our National Geodetic Survey (NGS). Of course, the program required a computer with a large memory capacity. The county had two computers that took up about 5000 square feet of the engineering building basement. If the computers were linked together, they would have a whopping 128KB of memory. The county surveyor's office used the computers to run Cosmos at night so that we would not interfere with the more important jobs of assessing property, taxing the residents, and last but certainly not least, printing our paychecks.

Data entry was accomplished by hand-letter double-checked code sheets. These would be delivered to the keypunch department to be converted to punched cards. We would then manually check the punched cards for accuracy and make our own corrections on an extra keypunch machine. These trays of punched cards would be delivered to the computer services department in the late afternoon to run that night. Each morning we would pick up the results, figure out why it did not work or how the overall adjustment could be better, and after two or three weeks we would obtain a very satisfactory adjustment.

Quite a process, but when we were done we would have an adjustment where all measurements were weighted according to their strengths, along with a set of statistics showing the precision of each measurement and coordinate. This was something that we could have confidence in, and a far cry from what we could do with our rotary calculators, Peters tables, and compass rule.

In 1975, two of us left the Orange County Surveyor's Office to form our own surveying firm. Of course, we tried to keep up with the latest desktop calculators and computers, the HP 9910 (then HP 85s and HP 86s), but nothing that could perform a true least squares network adjustment. I missed the ability to use least squares to properly

continued

Getting the Most Out of Least Squares

legs. The sample data field uses a simple code to indicate coordinates (C), traverse lines (TB, TE, and T), and distances (D).

Once the field data has been prepared, you need to decide how the observations will be weighted. You do this by establishing a "standard error" for each observation. Think of the standard error as a way of expressing your confidence in your field data. For example, you might decide that your distances have standard errors of 0.02 feet ± 3 ppm, and your angles five seconds. These values are normally determined from instrument specifications and observation procedures. In addition, you might choose a centering error of 0.005 feet to account for imprecise instrument centering. This centering error value will increase the standard error value for angles with short sights so that they have less influence in the adjustment than those with long sights. The least squares adjustment will use these standard error values to determine weights for all the field data in order to arrive at the best solution.

Now that you have established the amount of influence that each measurement will have, you can run the adjustment and analyze the output. Although the specifics of running an adjustment depend on the package being used, some output elements are common to most least squares programs. These include:

- A brief summary of the overall strength of the adjustment. This summary often provides a useful breakdown of how individual measurement types (distances, angles, etc.) fit into the adjustment.
- A list of residuals for all input observations. This list is a valuable tool for finding blunders in the survey and for checking the weights you assigned to your input observations.
- A list of adjusted coordinates for all stations in the survey. These coordinates can be transferred to your CAD or COGO package.
- A list of the computed positional tolerances (error ellipses) for all stations in the adjustment. The ellipses (to be discussed next) show the amount of uncertainty in the computed position of each point, and can often be viewed graphically.

What Do Error Ellipses Reveal?

Error ellipses are used to indicate the amount of uncertainty in a computed point's position, sometimes called the point's positional tolerance. As one surveyor put it, "It's not that the *point* is uncertain—it's a well-established monument. It's my *idea* of where the point is (as expressed by its coordinates) that has some possible error." If you look at the northing or easting of a point by itself, you can express its error as plus or minus so many hundredths of a foot. However, to show the combined effects of the uncertainty in northing and easting requires an error ellipse.

Why does the point have this positional uncertainty anyway? Again, as the surveyor said, "Surveying is one of the few professions where you rarely get to measure what you really want. You want coordinates, but you have to settle for measuring angles and distances, and then com-

puting coordinates." Remember that all your measurements are affected by small random errors. Therefore, you would expect any value computed from these measurements to also be affected. Least squares, as a part of the solution process, computes how much uncertainty in the coordinates results from the random errors in the field measurements. It is all there in the solution—you do not need to go to any trouble. These positional uncertainties, as represented by the error ellipses, are also affected by the geometry of the survey.

Two simple cases of error ellipses are illustrated in Figure 2. The ellipse dimensions indicate the size of the error region, and the orientation indicates the weaker and stronger directions.

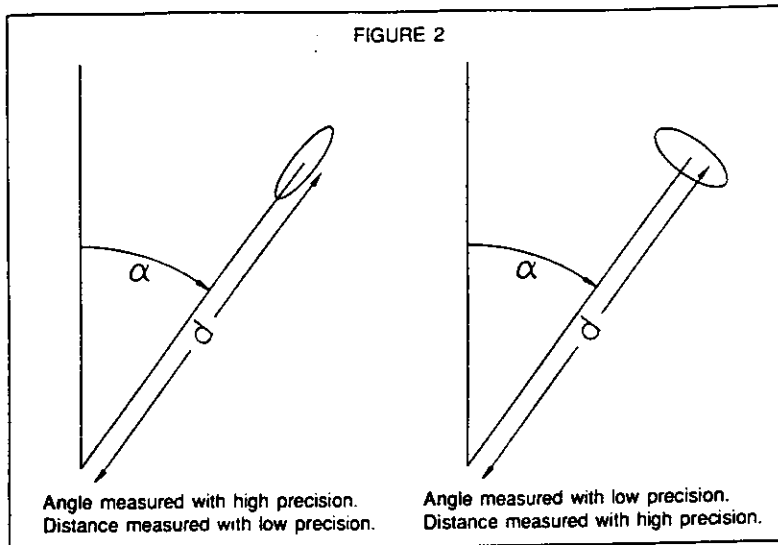
Why We Use Least Squares

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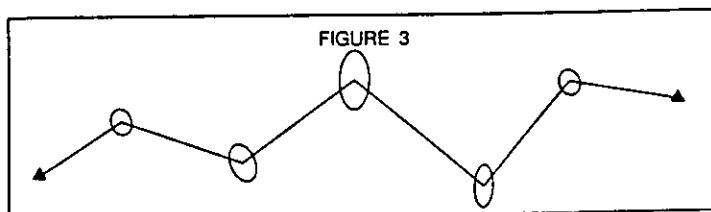
to distinguish his baselines. The solution used the weighting options in the least squares network program. First, we balanced the network of our new measurements as a control. Then we added the older survey measurements, giving them considerably looser constraints, and readjusted. After all the observations were subjected to the network solution, we compared the residuals (the differences between the observed values and the adjusted values) in our angles and distances to those that were produced when our data alone was considered. There was very little change. When we compared the older data (that had been adjusted by the original surveyor) we noticed larger residuals, as might be expected with the older methods. As a result, we were able to isolate errors into specific sections of the earlier survey and replace the corners much closer to the original surveyor's positions than if we had simply translated and rotated his data to fit our new baseline.

The foregoing is not the product of a mathematician. Had it been, the reasons why the least squares network solution works would be explained in detail. Rather, it is the product of a surveyor who tries to deliver a reliable product to his client and still profit from the work. Not only has the use of least squares network solutions enhanced our ability to do both, but it has made it simple to do so. It has improved our product while decreasing the time necessary to reach a solution that meets specifications. We have concluded that a least squares network solution has brought our balancing procedures into line with improvements in our traversing procedures, which occurred when our transit and tape were retired in favor of a theodolite and EDM. ▲

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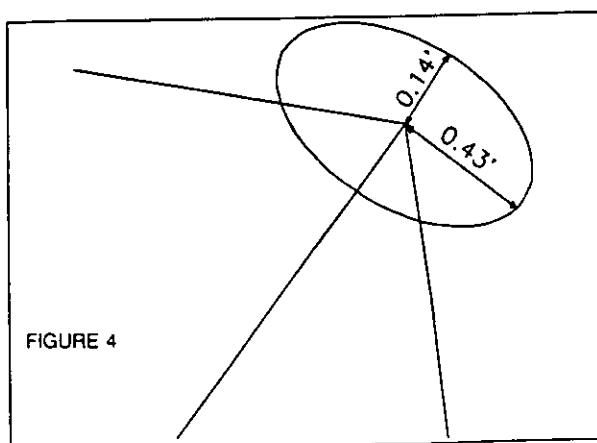


In a simple traverse between two fixed points, the error ellipses tend to increase in size according to the point's distance from a fixed station, as shown in Figure 3.



You should realize that least squares gives numerical values for the positional uncertainty of each point. For example, Figure 4 shows an actual ellipse that resulted from the adjustment of a multiloop traverse survey. Also shown are the ground dimensions of the error ellipse around the point. Even survey loops that close with very high precision may have large ellipses around the points, depending on the geometry of the survey.

Take the example of the surveyor who traversed through several miles of forest to discover that his newly located section corner was a half a foot away from a monument he found. When he traversed back, he closed to 1:55,000—so should the corner be reset? A least squares adjustment of the survey shows that the error ellipse for the new corner was over 1.5 feet long. This ellipse obviously raises some doubt about whether the new point is really any better than the existing monument. The closing



weigh and adjust our surveys, which were generally multiloop traverses. While our compass rule programs worked, in order to really use all the data we had to adjust each loop several times, or adjust the big loop and hope the cross connections would fit. This was a tedious and only an approximate procedure.

On several occasions where we had large control nets for cities or a Federal agency, we did manage to coerce the county into adjusting them with Cosmos. During these years, I always had my ear to the ground trying to find a program package to do even a small amount of least squares on computers that a mid-sized surveying firm such as ours could afford.

In 1987, we started converting our office from the tried and true HP 86s to IBM PC compatibles. These newer computers had memory and capabilities rivaling or exceeding the older mainframes we previously used for least squares.

I checked with NGS, which was in the process of converting one of its programs, called Adjust, to work on a PC. We obtained a pre-release copy of this program and used it to adjust an aerial control network of about 70 stations. While the program worked, it was difficult for non-NGS-trained personnel to decipher the instructions and code the inputted data. We also had to break the project into two sections due to capacity limitations.

So we kept looking and came across another reasonably priced package. We purchased it and found data input to be quite easy. During initial testing however, we discovered we would get different answers depending on the order in which the data was entered. In other words, it did not work.

I then acquired (for a nominal donation) a package from one of the top-rated western universities. While this one may have been effective, it had such a lack of documentation that I could never get it to function.

Undaunted by these unsuccessful ventures, in mid-1988 I obtained a commercial package that lives up to its advertisements. The package has usable documentation, easy coding of input data, and a very helpful blunder detection feature. The authors are open to suggestions and the program continues to improve due to input from users.

We can now properly adjust our normal traverses as well as complex networks and have confidence in our results. And, unlike the old days, the process of coding, checking, and adjusting is completed in two to three hours instead of two to three weeks. This tool allows us to do numerous tasks that we were unable to reasonably do before.

Our firm purchased and began using GPS (Global Positioning System) survey equipment for control at about the same time we obtained a workable least squares package. (Of course, our GPS system has its own least squares package that deals with the Earth Centered Three Dimensional Rectangular system but does not work well with conventional surveys). GPS

Getting the Most Out of Least Squares

electronic distance meter (EDM) calibration, must be compensated for before any adjustment takes place. What is left?

Random errors! These are small unavoidable errors that are an integral part of the measuring process. They are the few seconds difference in angle readings, and the few hundredths difference in distances that you see all the time in the field. They are no cause for concern, except that they must be adjusted correctly, and that is the job least squares does right.

Least squares simultaneously adjusts all field data, even in multiloop traverses. In a least squares adjustment, the "best" solution is defined as the solution producing the smallest changes to the input field measurements. These changes between the best-fit measurements and the original field data are called residuals. Technically speaking, the least squares adjustment method minimizes the sum of the squares of the weighted residuals—hence its name.

But now we have introduced a new term—weight. The weight tells the adjustment how much influence a measurement should have. In least squares each observation (distance, angle, etc.) can be given an individual weight.

The weight you place on your measurements might be based on the type of instrument you are using, the method of observation (chained or EDM distance), and the skill of the field crew. Low weights can be given to less accurately known field data and greater weights to observations that are more accurately known. During the adjustment, larger changes will be given to the less accurate data, minimizing the changes to the more accurate data. For example, an angle with short sights can be given a low weight so that it does not influence stronger angles with longer sights. Table 2 summarizes the relationship between weights, precision, and influence on the adjustment.

TABLE 2 - Weights

	"Strong" Measurement	"Weak" Measurement
Weight	HIGH	LOW
Precision	HIGH	LOW
Influence	HIGH	LOW
Standard Error	LOW	HIGH

This ability to weight individual measurements is only available in least squares, and it gives you the extra control needed to produce the best adjustment. However, least squares does far more than compute the best adjustment. It also provides a complete analysis of the survey, including a list of residuals for all measurements, and a statement on the positional accuracy of each computed point. This analysis can assist in the detection of survey blunders and the preplanning of surveys to meet specified accuracy requirements.

What Are Its Advantages?

Least squares provides a number of advantages over other adjustment methods.

- It is mathematically correct for all types of surveys, including traverses, triangulation, trilateration, resection, and intersection in any combination.

Why We Use Least Squares

continued

are "statistically most probable to have occurred," not where they actually happened. Unfortunately, cross-ties always seem to find the points where the errors actually occurred.

My partners and I knew that if we practiced in a specific location long enough we would eventually uncover our own errors. That thought has been in our minds since the day we began our practice. Our philosophy has been to isolate and correct those errors as they were found rather than to bury them and hope they disappeared. Over the years we have been careful enough not to have experienced many instances where we had to admit our mistakes. Nevertheless, we have had to admit a few, which is never a comfortable thing to do.

We have all heard about network adjustments. They are exotic routines that were once only used by the National Geodetic Survey. What did they do? Simply put, they considered all the measurements of a traverse network simultaneously rather than one at a time. This simultaneous approach considered the fourth loop at the same time it considered the first. Although it still put the errors where they were statistically most likely to occur, the analysis considered all the data rather than just a part of it.

As a practical matter, the least squares adjustment method was rigorous, costly, and took too long to achieve within the time and budget constraints of a particular job. The fact is, we could meet the specifications for the job using one of the less rigorous routines. So why try harder?

The effort involved in "trying harder" is not just for the individual job. It is for your practice. It is why you traverse around the entire block rather than setting out a single baseline with the hope that you will not have to shove the front corners of your rear adjoiner onto the sidewalk. It is so people believe you when you say you have better evidence and measurements now than you did five years ago.

However, something has finally made our lives easier. For the past two years we have been using STAR*NET—one of a number of available programs—a least squares solution that allows us to solve our traverses. With just a few minutes of additional time we have been able to solve our traverses as networks. I believe the network adjustment could be accomplished in less time, but we have elected to balance the individual loops of the traverses independently before performing the network adjustment. The payoff has resulted in less time spent rechecking material that was checked twice before, fewer returns to the field, and more reliable coordinate values for individual points. The proof of this is not in the abstract, but in the quality of the fourth- and fifth-generation cross-tie traverses added after the adjustment is complete and the map published.

continued

Getting the Most Out of Least Squares

- It computes a *single* solution, no matter how complex the survey.
- It does not distort field data, as do some approximate methods.
- It allows independent weighting of all field observations.
- It allows flexibility during data collection—field data can be collected in any order and configuration.
- It gives you a statement of the accuracy of each computed point.
- It helps detect blunders in field data.
- It helps with survey planning.
- It tells you a lot about the survey.

How Do You Use Least Squares?

You do not need to make major changes to your field procedures in order to use least squares. In fact, least squares adds a lot of flexibility to data collection. Distances and angles can be conveniently collected in any order without worrying about how the survey will be computed, because the adjustment handles all the data simultaneously. Traditionally, cross-ties and extra shots were used mainly to "check in." In least squares, these redundant shots actually become part of the adjustment, adding strength to the survey (*more is better*). Rather than making the survey solution more difficult, redundancies strengthen the survey, make blunder detection easier, and add more confidence that the adjustment is the "best" solution. Also, to make a surveyor's life really easy, additional field data can be added to an existing survey at any time, and the adjustment can be rerun.

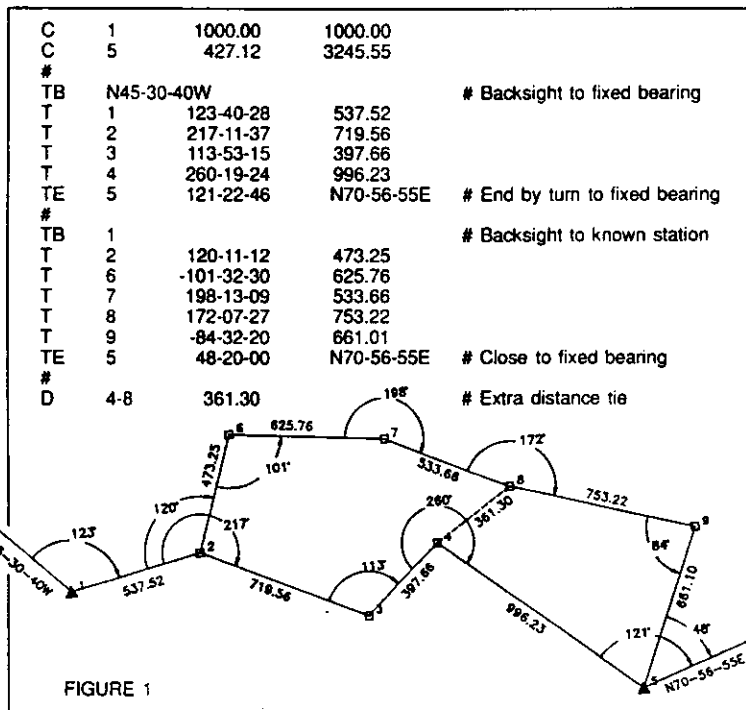


Figure 1 illustrates a small survey with two traverse loops and a distance tie between the loops. The two known points have coordinates supplied, and the rest of the field measurements are supplied as angle and distance traverse

Why We Use Least Squares *continued*

I would like to relate two specific instances where we have used a network solution to improve our database and our product.

The first involves the villages of Cold Spring and Nelsonville, New York, which are located in Philipstown where we practice. These villages have seen very little construction during the past 18 years of our practice. However, sales of various parcels have resulted in many surveys for our office. Correspondingly, we have developed a network of approximately 350 traverse points that were connected as the individual surveys were performed. The network became too dense for us to handle because the balancing was done linearly and the inevitable breakdown of the data became apparent. A traverse measured through a block connecting older points might result in a 1 in 3000 closure, but what could we do—the error of closure was only a tenth of a foot and the traverse was only 300 feet long.

During the summer of 1990 our college intern reentered and rebalanced the original field data using the least squares network program. The results are incredible. The reliability of the traverses has improved markedly. The integrity of our network has increased substantially. So far, 285 stations representing traverses around and through about 25 blocks have been entered. Because the adjustment runs so quickly we have made intermediate adjustments each section is added to the network. With the simultaneous adjustment we have been able to strengthen every one of those weakened cross-ties. Even before the entire project was successfully completed in the fall, we knew that our control in the villages was substantially better.

The second instance concerns a surveying problem involving a 60-acre parcel that was surveyed in the late 1940s by a firm whose records we own. The original survey was bounded by three earlier surveys the older firm had done prior to surveying the 60 acres. The firm's basic traverse method involved a 30-second transit using two repetitions on string sights and single slope taping. The surveyors made all the proper corrections, but because they had committed to three sides they forced about one foot into the fourth side to make things work. Our method for this survey involved one and two full circle positions with a one-second instrument and double electronic-distance-meter (EDM) observations from each end of each line.

This particular parcel narrowed considerably near its middle so we decided to cross-tie the traverse in that area. Since we had the original notes, we were able to recover and traverse through about 60 percent of the original baseline points. Most of the points, which were on exposed ledge rock, were "4-cuts," a variation of a crosscut that the surveyor used

continued

precision resulting from a compass rule adjustment tells you nothing about the positional accuracies of individual points. Only error ellipses can do that correctly.

A Word About Finding Blunders

As you know by now, blunders cannot be part of the adjustment; they must be located and removed from your field data. Least squares provides some useful tools for locating blunders. Normally, the entire adjustment is subjected to a statistical test (called the Chi Square test for the experts in the crowd) that checks the overall validity of your data, the standard errors that you assigned, and the adjustment results. You do not have to understand statistics to know that if your adjustment fails this test, you had better start looking for the source of the problem. This test is usually a part of the adjustment program, and failing it sounds a warning bell to alert you to a potential problem.

Let us imagine that you carefully prepared your field data, assigned standard errors that really reflect the way you survey, and have run your first least squares adjustment. Unfortunately, the program has told you that your survey "Fails the Test." Should you give up and return to the compass rule, because it never gave you such discouraging news? If you have read this far, you know by now we are not going to allow that.

At this point, you need to perform some detective work, with the adjustment providing all the clues you need to find the source of your problems. There are a number of techniques for finding blunders in a least squares adjustment, including automated blunder detection routines in some software. However, one simple manual technique is to look at the resulting *residuals* on your field data after the adjustment. If everything was perfect, you would expect the residuals to be roughly equal to the standard errors that you chose for your field data. Due to random errors, there will be some variation up and down, but if a residual exceeds three times its standard error, there may be a problem.

TABLE 3 - Checking For Blunders

Residuals in Angles						
At	From	To	Adj Angle	Residual	StdErr	StdRes
1	4	2	+58-15-40.22	+0-00-27.22	4.00	6.8*
3	2	4	+129-57-21.68	+0-00-32.68	4.00	8.2*
4	3	1	+99-58-37.68	+0-00-29.68	4.00	7.4*
1	2	6	+61-47-49.93	-0-00-02.07	4.00	0.5
6	1	7	+90-00-02.47	-0-00-02.53	4.00	0.6
Residuals in Distances						
At	To	Adj Dist	Residual	StdErr	StdRes	
1	2	973.9700	-0.0090	0.030	0.3	
2	3	422.5785	0.0675	0.030	2.3	
3	4	512.6738	0.0298	0.030	1.0	

Table 3 shows an excerpt from an actual adjustment containing a blunder. The last column in the table, called the *standardized residual*, is the ratio of the residuals to the input standard errors. Those with values above 3.0 are flagged to draw your attention to them. You can see imme-

control and conventional surveys with least squares adjustment work hand in hand. One of the great advantages of GPS is that the points do not have to be intervisible. One of the disadvantages of GPS points, when later used in conventional surveys, is that they generally are *not* intervisible, and hence, no backsight is available. Using least squares we can easily start at one known GPS point with no backsight, conventionally survey to another known point, and adjust between the two. If a third known point is included anywhere in the traverse, sufficient redundancy is introduced to allow complete confidence in this no-backsight, no-check-in-azimuth type of survey.

Given the task of locating a series of intersecting transmission lines in a refinery and determining clearances for additional construction, we measured a baseline along one side of the project, turned horizontal and vertical angles from the ends of this baseline to all the insulators at each end of the subject lines and to the low point of each line, and coded the angles into the least squares program. The software produced the horizontal locations of all the subject lines, the elevation of both ends of each line, and the low point of the catenary. Although these results could have been achieved by other methods, this procedure saved us much time in both the field and the office, and again, we have a lot of confidence in our answers.

When we were surveying the centerline of a winding mountain road with 300-plus courses, most of which were 50 to 100 feet in length but with visibility into a broad river wash on one side, we set a large sight on a known control station in the wash area about two miles away. We then turned angles to this sight at all the traverse points from which it could be seen. Using least squares, this redundant data was easily incorporated into the traverse adjustment along the road and allowed us to have a high level of confidence in our azimuths and in the entire survey. It might be worthy to note here that using this same technique, but turning to a natural sight whose position is not known from a number of points in the survey, should control azimuth nearly as well.

Somewhere in the past I have heard that the difference between a technician and a professional is that the technician uses his education, training, and the available equipment to perform his job as trained or educated, while a professional uses his education, training, and equipment to innovate new, better, or more efficient methods of performing his projects.

The least squares method is a valuable tool that is now readily available to all professional surveyors. It allows these professionals to expand their capabilities to the limits of their imaginations. ▲

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diately that there are several very large standardized residuals on the angles. A good place to start looking for blunders would be the angle with the largest standardized residual. That may not always be the one, and you may need to look at the next few angles as well, but it represents a good clue.

Using Preanalysis To Plan Surveys

Least squares can be used to compute the accuracies of survey points, and the relative accuracies between points, *before* any field observations are made. How is this possible? First you supply a list of input station names along with their approximate coordinates scaled from a map or photograph, indicating roughly where the survey points are planned. Then you enter a list of the proposed measurements, using "From and To" station names rather than actual field survey data. Finally, just as in regular data, you need to indicate standard error values for these proposed measurements so that the proper weighting can be applied.

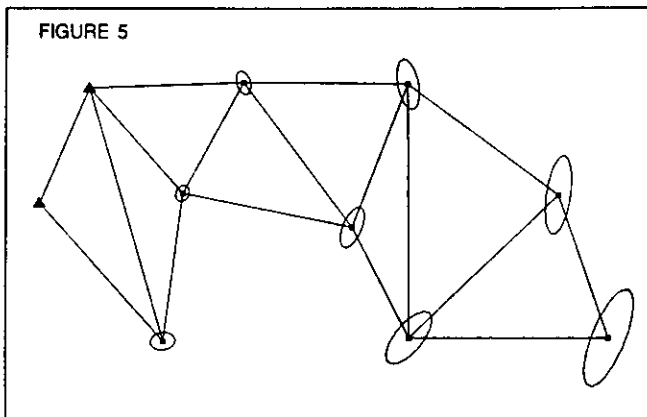


FIGURE 5
Preanalysis results for a small network. The shape and size of the error ellipses indicate increasing positional uncertainty as we move away from the fixed stations.

The least squares preanalysis will now take this proposed survey and generate computed accuracies (error ellipses) for all survey stations. You can then review the results, and add or delete measurements as needed to meet the required accuracy specifications. Even if the actual survey varies somewhat from the proposed configuration, this technique allows you to develop a general plan for each survey that will result in the most efficient use of your field time.

What Else Can I Use It For?

Because least squares allow so much flexibility in data collection, and because it provides a single "best-fit" solution no matter what kind of survey was performed, you can use it to help you in a variety of field applications. For example, imagine that you are running a traverse and reach a point where several short legs would be required. You know that the short sights will weaken the traverse, but with least squares you can set an additional point, and observe all possible distances and angles to it. The adjustment will use all the data, and strengthen the corner considerably.

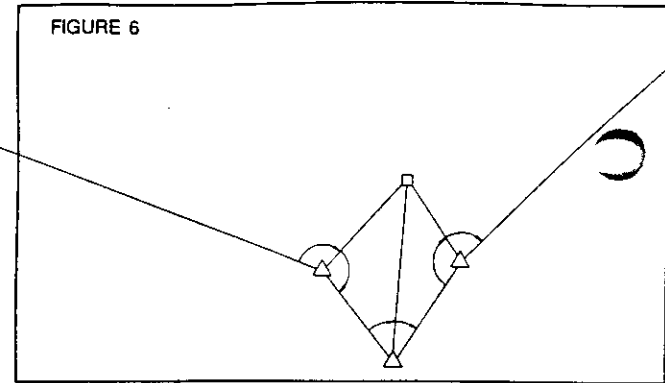


FIGURE 6
Strengthening of traverse with short traverse legs by observing a remote point.

Resections can be easily handled, with any number and combination of angle and distance observations. Least squares will automatically compute the best coordinates, plus produce an error ellipse showing how accurate the resection was. Traversing becomes much more flexible. You can begin with or without a backsight to a known bearing, and close to a known point with or without a closing angle to another known bearing. Solar azimuths, appropriately weighted, can be added wherever needed to strengthen the traverse. Additional distance and angle ties can be observed wherever possible. They will assist with blunder detection and will strengthen the traverse.

Least squares is a powerful adjustment technique that gives you a complete accounting sheet for your surveys. It gives you the best possible results while preserving field data as much as possible. It provides you with a detailed statement of how each observation fits into the adjustment, and a statement of accuracy for each computed point. All this information allows you to make intelligent and informed decisions about the strength of any particular survey. Least squares also provides tools for locating blunders in field data, and for preplanning surveys to meet accuracy specifications. Least squares is the *only* adjustment method that does justice to your high precision equipment and your good field practice.

Several states and many Federal government agencies are now (or soon will be) requiring the use of least squares adjustments and positional tolerance statements for all surveys, rather than the more traditional traverse closing precisions. In the near future, we will probably look back and wonder how we ever managed without least squares. ▲

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Ron Sawyer serves as director of sales at STARPLUS Software, Inc. He has a Master of Science degree in architectural engineering from the University of Illinois and is a registered civil engineer in the state of California. He has developed software for civil engineers and surveyors both as a private consultant and as a manager of a software service company.

SORT

BY

LOCATION

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
10	13	21	10132100	639	SECONDARY
10	13	21	10132104	640	SECONDARY
10	13	22	10132200	641	SECONDARY
10	13	23	10132300	642	SECONDARY
10	13	25	10132500	478	SECONDARY
10	13	26	10132604	479	PRIMARY
10	13	28	10132804	644	SECONDARY
10	13	28	10132840	645	SECONDARY
10	13	28	10132700 WP	643	SECONDARY
10	13	34	10133404	646	SECONDARY
10	13	35	10133500	647	SECONDARY
10	13	35	10133504	648	SECONDARY
10	13	36	10133640	480	SECONDARY
10	13	36	10133600	649	SECONDARY
10	13	36	10133604	650	SECONDARY
10	14	28	10142800	651	SECONDARY
10	14	29	10142900	481	SECONDARY
10	14	29	10142904	652	SECONDARY
10	14	30	10143000	482	SECONDARY
10	14	30	10143004	653	SECONDARY
10	14	31	ROD 2	548	SECONDARY
10	14	31	10143104	655	SECONDARY
10	14	31	10143100	654	SECONDARY
10	14	31	10143140	483	SECONDARY
10	14	32	10143204	657	SECONDARY
10	14	32	10143240	658	SECONDARY
10	14	32	10143200	656	SECONDARY
11	12	24	ROUND	549	PRIMARY
11	13	1	11130180	660	SECONDARY
11	13	1	11130104	659	SECONDARY
11	13	1	COTTON 1	521	SECONDARY
11	13	1	11130100	484	SECONDARY
11	13	2	11130240	661	SECONDARY
11	13	2	11130200	485	SECONDARY
11	13	2	ROD 1	547	SECONDARY
11	13	2	11130204	486	SECONDARY
11	13	2	11130280	662	SECONDARY
11	13	3	11130300	663	SECONDARY
11	13	3	11130304	664	SECONDARY
11	13	3	11130380	665	SECONDARY
11	13	4	11130440	668	SECONDARY
11	13	4	11130480	669	SECONDARY
11	13	4	11130400	666	SECONDARY
11	13	4	11130404	667	SECONDARY
11	13	10	11131004	487	PRIMARY
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11	13	11	11131104-W.C.	488	SECONDARY
11	13	11	SKYLER	713	SECONDARY
11	13	11	11131140	670	SECONDARY
11	13	12	ROD 3	712	SECONDARY
11	13	12	11131204	672	SECONDARY
11	13	12	11131240	673	SECONDARY
11	13	12	11131244	674	SECONDARY
11	13	12	11131200	489	SECONDARY
11	13	12	SKY	550	HIGH PRECISION
11	13	13	11131304	675	SECONDARY
11	13	13	11131340	676	SECONDARY
11	13	13	11131300	490	SECONDARY
11	13	14	11131440	678	SECONDARY
11	13	14	11131444	679	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
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11	13	14	11131400	491	SECONDARY
11	13	15	11131500	680	SECONDARY
11	13	15	11131504	681	SECONDARY
11	13	21	11132104	683	SECONDARY
11	13	21	11132100	682	SECONDARY
11	13	22	11132204	492	SECONDARY
11	13	22	11132240	686	SECONDARY
11	13	22	11132204-(REO 1995)	714	SECONDARY
11	13	22	11132200	684	SECONDARY
11	13	23	COTTON 2	522	SECONDARY
11	13	23	11132300	687	SECONDARY
11	13	23	11132340	688	SECONDARY
11	13	23	11132304	493	SECONDARY
11	13	24	11132440	690	SECONDARY
11	13	24	11132400	494	SECONDARY
11	13	24	11132404	689	SECONDARY
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11	13	27	11132744	696	SECONDARY
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11	13	28	11132840	699	SECONDARY
11	13	28	11132804	698	SECONDARY
11	13	28	11132800	697	SECONDARY
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11	14	5	11140540	700	SECONDARY
11	14	6	11140640	702	SECONDARY
11	14	6	11140604	701	SECONDARY
11	14	6	11140600	496	SECONDARY
11	14	6	11140680	703	SECONDARY
11	14	7	11140700	497	SECONDARY
11	14	7	11140740	704	SECONDARY
11	14	18	11141840	706	SECONDARY
11	14	18	11141800	705	SECONDARY
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11	14	19	11141940	707	SECONDARY
11	14	30	11143040	708	SECONDARY
12	12		2CROOK	523	PRIMARY
12	13		3K-336	535	PRIMARY
12	13	7	12130700	709	SECONDARY
12	13	8	12130800	710	SECONDARY
12	13	9	12130900	711	SECONDARY
12	13	16	12131600	499	PRIMARY
12	13	17	12131700	500	PRIMARY
12	13	18	12131800	501	PRIMARY
12	13	27	HAY	531	HIGH PRECISION
12	14	19	Q-336	543	PRIMARY
12	14	32	F-336	525	PRIMARY
13	12	11	JUIN AZ NO.2	534	PRIMARY
13	13	18	C-15 PP&L	517	PRIMARY
13	13	31	13133100	553	SECONDARY
13	13	34	ROCK AZ 1945	638	SECONDARY
13	13	34	131334007	554	SECONDARY
13	14	19	KINGS GAP (USFS)	537	PRIMARY
13	14	23	L-367	538	PRIMARY
13	15	30	13153040	502	PRIMARY
13	15	33	13153300	503	PRIMARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
13	15	35	13153500	504	PRIMARY
14	12	1	14120188 (GIS 020)	8	PRIMARY
14	12	4	BIG FALLS (GIS 033)	21	HIGH PRECISION
14	12	6	GIS 019	7	PRIMARY
14	12	12	2711 PP&L	513	PRIMARY
14	12	16	Y-419	552	PRIMARY
14	13	3	14130300	555	SECONDARY
14	13	3	14130380	557	SECONDARY
14	13	3	14130304	556	SECONDARY
14	13	4	B-366	516	PRIMARY
14	13	4	14130400	558	SECONDARY
14	13	4	14130480	559	SECONDARY
14	13	5	14130500	560	SECONDARY
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14	13	6	14130600A	563	SECONDARY
14	13	7	14130740	564	SECONDARY
14	13	8	14130800	565	SECONDARY
14	13	9	V-456	551	PRIMARY
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14	13	18	2906 ORE	514	PRIMARY
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14	13	18	14131840	578	SECONDARY
14	13	18	14141800	596	SECONDARY
14	13	19	14131900	579	SECONDARY
14	13	19	14141900	597	SECONDARY
14	13	20	14132000	580	SECONDARY
14	13	21	14132100	581	SECONDARY
14	13	22	14132200	582	SECONDARY
14	13	23	14132300	583	SECONDARY
14	13	24	14132400	584	SECONDARY
14	13	25	14132500 (GIS 028)	16	PRIMARY
14	13	26	14132600	585	SECONDARY
14	13	27	14132700	586	SECONDARY
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14	13	29	14132900	588	SECONDARY
14	13	30	14133000	589	SECONDARY
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14	13	33	G-111	527	PRIMARY
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14	13	34	14133400	593	SECONDARY
14	13	35	14133500	594	SECONDARY
14	13	36	14133600	595	SECONDARY
14	14	5	LONE PINE SCHOOL PK	539	PRIMARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
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14	14	28	N-752	542	PRIMARY
14	14	30	K-752	536	PRIMARY
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14	15	2	2971 RESET	515	PRIMARY
14	15	13	14151300	506	PRIMARY
14	15	15	14151500	507	PRIMARY
14	15	20	C-457	518	PRIMARY
14	15	22	14152200	508	PRIMARY
14	15	35	G-457	529	PRIMARY
15	10	5	SISTERS (GIS 066)	54	HIGH PRECISION
15	10	8	GIS 015	3	PRIMARY
15	10	32	X-359 1942 (GIS 065)	53	PRIMARY
15	11	7	GIS 017	5	PRIMARY
15	12	5	GIS 018	6	PRIMARY
15	12	11	M-419	540	PRIMARY
15	12	11	CLINE FALLS	520	PRIMARY
15	12	17	J-735	533	PRIMARY
15	12	21	CLINE 1971 (GIS 032)	20	PRIMARY
15	12	38	GIS 023	11	PRIMARY
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15	13	4	15130400	603	SECONDARY
15	13	5	15130500	604	SECONDARY
15	13	5	RED 13 (DEA)	546	SECONDARY
15	13	6	15130600	605	SECONDARY
15	13	6	15140600	634	SECONDARY
15	13	6	GIS 022	10	PRIMARY
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15	13	8	15130800	607	SECONDARY
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15	13	12	15131200	611	SECONDARY
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15	13	16	15131600	613	SECONDARY
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15	13	17	15131700	614	SECONDARY
15	13	18	15131800	615	SECONDARY
15	13	18	E-735	524	PRIMARY
15	13	19	15131900	616	SECONDARY
15	13	19	15141900	635	SECONDARY
15	13	20	15132000	617	SECONDARY
15	13	21	15132100	618	SECONDARY
15	13	22	15132200	619	SECONDARY
15	13	23	15132300?	620	SECONDARY
15	13	24	15132400	621	SECONDARY
15	13	25	15132500	622	SECONDARY
15	13	26	15132600	623	SECONDARY
15	13	27	15132700	624	SECONDARY
15	13	28	15132800	625	SECONDARY
15	13	29	15132900	626	SECONDARY
15	13	30	15133000	627	SECONDARY
15	13	30	15143000	636	SECONDARY
15	13	31	15143100	637	SECONDARY
15	13	31	15133100	628	SECONDARY
15	13	32	15133200	629	SECONDARY
15	13	33	15133300	630	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
15	13	34	15133400	631	SECONDARY
15	13	35	15133500	632	SECONDARY
15	13	36	15133600	633	SECONDARY
15	14	1	15140100	509	PRIMARY
15	14	21	Q-463	545	PRIMARY
15	14	35	15143500	510	PRIMARY
15	15	1	PRINEVILLE (GIS 067)	55	HIGH PRECISION
15	15	8	15150800	511	PRIMARY
15	15	14	N-463	541	PRIMARY
15	15	20	C-463	519	PRIMARY
15	15	30	15153000	512	PRIMARY
16	10	1	GIS 014	2	PRIMARY
16	11	24	T 463 (GIS 047)	35	PRIMARY
16	11	27	GIS 016	4	PRIMARY
16	11	35	16113500	249	SECONDARY
16	11	36	16113600	250	SECONDARY
16	12	8	16120840 (GIS 029)	17	PRIMARY
16	12	26	E-30 RESET 69 (GIS 030)	18	PRIMARY
16	12	26	16122604	79	SECONDARY
16	12	26	16122600	78	SECONDARY
16	12	31	16123104	252	SECONDARY
16	12	31	16123100	251	SECONDARY
16	12	32	16123204	254	SECONDARY
16	12	32	16123200	253	SECONDARY
16	12	33	16123300	255	SECONDARY
16	12	34	16123400	80	SECONDARY
16	12	34	16123404	81	SECONDARY
16	12	35	16123500	82	SECONDARY
16	12	35	16123540	83	SECONDARY
16	12	35	DL80	234	SECONDARY
16	12	36	16123600	84	SECONDARY
16	13	31	16133100	85	SECONDARY
16	13	34	16133400	86	SECONDARY
16	14	31	16143100	87	SECONDARY
17	9	10	DES 016 (GIS 064)	52	PRIMARY
17	11	1	17110140	257	SECONDARY
17	11	1	17110100	256	SECONDARY
17	11	2	17110200	258	SECONDARY
17	11	2	17110204	259	SECONDARY
17	11	11	17111400	267	SECONDARY
17	11	11	17111100	260	SECONDARY
17	11	11	17111104	261	SECONDARY
17	11	12	GIS 068	56	PRIMARY
17	11	12	CB22	332	SECONDARY
17	11	12	17111200	262	SECONDARY
17	11	12	17111240	263	SECONDARY
17	11	13	17111300	264	SECONDARY
17	11	13	17111304	265	SECONDARY
17	11	13	17111340	266	SECONDARY
17	11	14	17111404	268	SECONDARY
17	11	14	17111440	269	SECONDARY
17	11	14	CB25	334	SECONDARY
17	11	23	17112300	270	SECONDARY
17	11	23	17112304	271	SECONDARY
17	11	24	17112404	273	SECONDARY
17	11	24	17112400	272	SECONDARY
17	11	25	17112500	274	SECONDARY
17	11	25	17112504	275	SECONDARY
17	11	25	17112540	276	SECONDARY
17	11	26	17112604	278	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
17	11	26	17112640	279	SECONDARY
17	11	26	17112600	277	SECONDARY
17	11	35	CB28	337	SECONDARY
17	11	35	17113540	282	SECONDARY
17	11	35	17113504	281	SECONDARY
17	11	35	17113500	280	SECONDARY
17	11	36	17113604	284	SECONDARY
17	11	36	17113600	283	SECONDARY
17	11	36	17113640	285	SECONDARY
17	12	1	17120140	89	SECONDARY
17	12	1	P.B.S. TV TOWER	248	SECONDARY
17	12	1	AE70	206	SECONDARY
17	12	1	17120100	88	SECONDARY
17	12	1	CB20	330	SECONDARY
17	12	1	17123040	322	SECONDARY
17	12	2	17120204	91	SECONDARY
17	12	2	17120240	92	SECONDARY
17	12	2	CB19	231	SECONDARY
17	12	2	17120200	90	SECONDARY
17	12	3	17120300	93	SECONDARY
17	12	3	CB04	216	SECONDARY
17	12	3	17120304	94	SECONDARY
17	12	3	17120340	95	SECONDARY
17	12	4	17120400	286	SECONDARY
17	12	4	17120404	287	SECONDARY
17	12	5	17120504	289	SECONDARY
17	12	5	17120540	290	SECONDARY
17	12	5	17120500	288	SECONDARY
17	12	6	17120604	292	SECONDARY
17	12	6	17120640	293	SECONDARY
17	12	6	17120600	291	SECONDARY
17	12	7	17120700	294	SECONDARY
17	12	8	17120800	295	SECONDARY
17	12	8	17120804	296	SECONDARY
17	12	8	17120840	297	SECONDARY
17	12	9	17120940	299	SECONDARY
17	12	9	17120900	298	SECONDARY
17	12	9	17120904	96	SECONDARY
17	12	9	C-30 1921 (GIS 034)	22	PRIMARY
17	12	10	CB02	214	SECONDARY
17	12	10	17121004	98	SECONDARY
17	12	10	CB03	215	SECONDARY
17	12	10	17121000	97	SECONDARY
17	12	11	CB08	220	SECONDARY
17	12	11	CB15	227	SECONDARY
17	12	11	DL20	233	SECONDARY
17	12	11	CB16	228	SECONDARY
17	12	11	17121140	101	SECONDARY
17	12	11	17121104	100	SECONDARY
17	12	11	17121100	99	SECONDARY
17	12	12	17121204	103	SECONDARY
17	12	12	17121200	102	SECONDARY
17	12	13	17121340	106	SECONDARY
17	12	13	17121304	105	SECONDARY
17	12	13	17121300	104	SECONDARY
17	12	13	CB09	221	SECONDARY
17	12	13	BA50	209	SECONDARY
17	12	14	DESCHUTES RESET	232	SECONDARY
17	12	14	17121440	109	SECONDARY
17	12	14	17121404	108	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
17	12	14	17121400	107	SECONDARY
17	12	15	CB05	217	SECONDARY
17	12	15	18131500	388	SECONDARY
17	12	15	17121504	111	SECONDARY
17	12	15	17121500	110	SECONDARY
17	12	15	17121540	112	SECONDARY
17	12	16	CB01	213	SECONDARY
17	12	16	17121600	300	SECONDARY
17	12	16	17121640	301	SECONDARY
17	12	16	B001	63	SECONDARY
17	12	16	17121604	113	SECONDARY
17	12	17	17121740	303	SECONDARY
17	12	17	17121700	302	SECONDARY
17	12	18	17121840	305	SECONDARY
17	12	18	CB21	331	SECONDARY
17	12	18	17121800	304	SECONDARY
17	12	19	17121900	306	SECONDARY
17	12	19	CB27	336	SECONDARY
17	12	19	17121904	307	SECONDARY
17	12	19	17121940	308	SECONDARY
17	12	20	17122040	311	SECONDARY
17	12	20	17122004	310	SECONDARY
17	12	20	17122000	309	SECONDARY
17	12	21	B002	64	SECONDARY
17	12	21	B014	75	SECONDARY
17	12	21	17122140	314	SECONDARY
17	12	21	17122104	313	SECONDARY
17	12	21	17122100	312	SECONDARY
17	12	22	17122240	116	SECONDARY
17	12	22	17122204	115	SECONDARY
17	12	22	17122200	114	SECONDARY
17	12	22	CB07	219	SECONDARY
17	12	23	17122300	117	SECONDARY
17	12	23	17122304	118	SECONDARY
17	12	23	17122340	119	SECONDARY
17	12	23	GIS 100	247	SECONDARY
17	12	23	BA40	208	SECONDARY
17	12	24	17122404	121	SECONDARY
17	12	24	17122440	122	SECONDARY
17	12	24	BUTLER	212	SECONDARY
17	12	24	17122400	120	SECONDARY
17	12	25	CB17	229	SECONDARY
17	12	25	17122500	123	SECONDARY
17	12	25	17122504	124	SECONDARY
17	12	25	17122540	125	SECONDARY
17	12	25	AE80	205	SECONDARY
17	12	26	EO10	235	SECONDARY
17	12	26	17122600	126	SECONDARY
17	12	26	17122604	127	SECONDARY
17	12	26	17122640	128	SECONDARY
17	12	27	17122700	129	SECONDARY
17	12	27	CB06	218	SECONDARY
17	12	27	17122740	131	SECONDARY
17	12	27	17122704	130	SECONDARY
17	12	27	GIS 007	242	SECONDARY
17	12	28	B003	65	SECONDARY
17	12	28	GIS 011	245	SECONDARY
17	12	28	17122840	316	SECONDARY
17	12	28	17122800	315	SECONDARY
17	12	29	17122900	317	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
17	12	29	17122904	318	SECONDARY
17	12	29	17122940	319	SECONDARY
17	12	30	CB23	333	SECONDARY
17	12	30	CB26	335	SECONDARY
17	12	30	17123004	321	SECONDARY
17	12	30	17123000	320	SECONDARY
17	12	31	WCCW	339	SECONDARY
17	12	31	17123100	323	SECONDARY
17	12	31	17123104	324	SECONDARY
17	12	31	17123140	325	SECONDARY
17	12	32	B004 ODOT 1990	61	PRIMARY
17	12	32	B005	66	SECONDARY
17	12	32	USCE	338	SECONDARY
17	12	32	17123204	326	SECONDARY
17	12	33	17123304	328	SECONDARY
17	12	33	17123300	327	SECONDARY
17	12	33	17123340	329	SECONDARY
17	12	33	GIS 005	240	SECONDARY
17	12	34	GIS 002	237	SECONDARY
17	12	34	GIS 003	238	SECONDARY
17	12	34	GIS 006	241	SECONDARY
17	12	34	17123400	132	SECONDARY
17	12	34	PILOT BUTTE (GIS 031)	19	HIGH PRECISION
17	12	34	GIS 010	244	SECONDARY
17	12	34	GIS 008	243	SECONDARY
17	12	34	17123404	133	SECONDARY
17	12	34	17123440	134	SECONDARY
17	12	35	17123504	136	SECONDARY
17	12	35	17123540	137	SECONDARY
17	12	35	17123500	135	SECONDARY
17	12	35	AE80	207	SECONDARY
17	12	35	GIS 012	246	SECONDARY
17	12	36	17123640	140	SECONDARY
17	12	36	17123604	139	SECONDARY
17	12	36	17123600	138	SECONDARY
17	13	6	17130600	141	SECONDARY
17	13	7	17130700	142	SECONDARY
17	13	7	17130704	143	SECONDARY
17	13	7	17130740	144	SECONDARY
17	13	8	17130804	146	SECONDARY
17	13	8	17130800	145	SECONDARY
17	13	9	17130900	147	SECONDARY
17	13	10	17131000	148	SECONDARY
17	13	14	17131400	149	SECONDARY
17	13	15	17131504	151	SECONDARY
17	13	15	17131500	150	SECONDARY
17	13	16	17131604	153	SECONDARY
17	13	16	17131640	154	SECONDARY
17	13	16	17131600	152	SECONDARY
17	13	17	17131700	155	SECONDARY
17	13	17	17131704	156	SECONDARY
17	13	17	17131740	157	SECONDARY
17	13	18	17131840	160	SECONDARY
17	13	18	17131800	158	SECONDARY
17	13	18	17131804	159	SECONDARY
17	13	19	17131900	161	SECONDARY
17	13	19	17131940	163	SECONDARY
17	13	19	BA60	210	SECONDARY
17	13	19	17131904	162	SECONDARY
17	13	20	17132000	164	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
17	13	20	17132004	165	SECONDARY
17	13	20	17132040	166	SECONDARY
17	13	20	BEND AIRPORT (GIS 046)	34	PRIMARY
17	13	21	17132100	167	SECONDARY
17	13	21	17132104	168	SECONDARY
17	13	21	CB11	223	SECONDARY
17	13	21	17132140	169	SECONDARY
17	13	21	CB13	225	SECONDARY
17	13	22	17132200	170	SECONDARY
17	13	22	17132204	171	SECONDARY
17	13	22	17132240	172	SECONDARY
17	13	23	17132300	173	SECONDARY
17	13	23	17132340	174	SECONDARY
17	13	24	17133240a	194	SECONDARY
17	13	26	17132800	175	SECONDARY
17	13	26	17132640	176	SECONDARY
17	13	27	17132700	177	SECONDARY
17	13	27	17132740	178	SECONDARY
17	13	28	17132800	179	SECONDARY
17	13	28	17132804	180	SECONDARY
17	13	28	CB10	222	SECONDARY
17	13	28	17132840	181	SECONDARY
17	13	29	17132900	182	SECONDARY
17	13	29	17132904	183	SECONDARY
17	13	29	17132940	184	SECONDARY
17	13	30	17133000	185	SECONDARY
17	13	30	17133004	186	SECONDARY
17	13	30	17133040	187	SECONDARY
17	13	31	17133140	190	SECONDARY
17	13	31	17133104	189	SECONDARY
17	13	31	GIS 044	32	PRIMARY
17	13	31	17133100	188	SECONDARY
17	13	32	CB12	224	SECONDARY
17	13	32	CB18	230	SECONDARY
17	13	32	17133200	191	SECONDARY
17	13	32	17133204	192	SECONDARY
17	13	32	17133240	193	SECONDARY
17	13	33	17133300	195	SECONDARY
17	13	33	17133340	197	SECONDARY
17	13	33	17133304	196	SECONDARY
17	13	34	17133400	198	SECONDARY
17	13	34	17133404	199	SECONDARY
17	13	34	17133440	200	SECONDARY
17	13	35	17133540	202	SECONDARY
17	13	35	17133500	201	SECONDARY
17	14	2	GIS 024	12	PRIMARY
17	14	18	17141800	203	SECONDARY
17	14	26	17142800 (GIS 026)	14	PRIMARY
17	14	31	17143100	204	SECONDARY
18	9	21	P-35 RESET87 (GIS 062)	50	PRIMARY
18	10	1	FIRST (GIS 063)	51	PRIMARY
18	10	27	GIS 037	25	PRIMARY
18	11	1	DRW2	475	SECONDARY
18	11	1	18110100	432	SECONDARY
18	11	1	DRW3	476	SECONDARY
18	11	2	18110204	433	SECONDARY
18	11	11	18111100	434	SECONDARY
18	11	11	18111104	435	SECONDARY
18	11	12	GIS 036	24	PRIMARY
18	11	12	18111200	436	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
18	11	13	18111300	437	SECONDARY
18	11	13	CB29	460	SECONDARY
18	11	13	CB39	462	SECONDARY
18	11	14	CB45	468	SECONDARY
18	11	14	18111400	438	SECONDARY
18	11	15	18111500	439	SECONDARY
18	11	15	CB42	465	SECONDARY
18	11	15	CB46	469	SECONDARY
18	11	22	CB43	466	SECONDARY
18	11	22	18112200	440	SECONDARY
18	11	23	18112300	441	SECONDARY
18	11	23	18112304	442	SECONDARY
18	11	24	DRW1	474	SECONDARY
18	11	24	18112440	443	SECONDARY
18	11	25	CB40	463	SECONDARY
18	11	25	18112540	445	SECONDARY
18	11	25	CB41	464	SECONDARY
18	11	25	18112500	444	SECONDARY
18	12	1	18120140	342	SECONDARY
18	12	1	18120100	340	SECONDARY
18	12	1	18120104	341	SECONDARY
18	12	2	18120240	345	SECONDARY
18	12	2	18120204	344	SECONDARY
18	12	2	18120200	343	SECONDARY
18	12	3	18120340	348	SECONDARY
18	12	3	18120304	347	SECONDARY
18	12	3	18120300	346	SECONDARY
18	12	3	GIS 004	239	SECONDARY
18	12	3	WT20	431	SECONDARY
18	12	4	GIS 001	236	SECONDARY
18	12	5	18120540	447	SECONDARY
18	12	5	JOHN	477	SECONDARY
18	12	5	18120500	446	SECONDARY
18	12	5	CB44	467	SECONDARY
18	12	5	GIS 013	1	PRIMARY
18	12	5	B006	67	SECONDARY
18	12	5	B007	68	SECONDARY
18	12	6	18120600	448	SECONDARY
18	12	7	CB47	470	SECONDARY
18	12	7	18120700	449	SECONDARY
18	12	8	WB23	76	SECONDARY
18	12	8	WB24	77	SECONDARY
18	12	8	B008	69	SECONDARY
18	12	8	18120800	450	SECONDARY
18	12	8	B010	71	SECONDARY
18	12	8	B009	70	SECONDARY
18	12	9	18120900	451	SECONDARY
18	12	10	K030	423	SECONDARY
18	12	10	18121004	350	SECONDARY
18	12	10	18121040	351	SECONDARY
18	12	10	18121000	349	SECONDARY
18	12	11	STEVENS	62	PRIMARY
18	12	11	18121100	352	SECONDARY
18	12	11	18121104	353	SECONDARY
18	12	11	18121140	354	SECONDARY
18	12	12	18121240	357	SECONDARY
18	12	12	LO20	426	SECONDARY
18	12	12	18121204	356	SECONDARY
18	12	12	18121200	355	SECONDARY
18	12	13	18121300	358	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
18	12	13	18121340	359	SECONDARY
18	12	13	LARSON	427	SECONDARY
18	12	14	CB37	421	SECONDARY
18	12	14	GIS 045	33	PRIMARY
18	12	14	18121404	361	SECONDARY
18	12	14	18121400	360	SECONDARY
18	12	15	18121500	362	SECONDARY
18	12	16	18121600	452	SECONDARY
18	12	17	B012	73	SECONDARY
18	12	17	18121700	453	SECONDARY
18	12	17	B011	72	SECONDARY
18	12	17	B013	74	SECONDARY
18	12	17	CB38	461	SECONDARY
18	12	18	18121800	454	SECONDARY
18	12	20	18122000	455	SECONDARY
18	12	22	18122200	363	SECONDARY
18	12	23	KR20	424	SECONDARY
18	12	23	18122300	364	SECONDARY
18	12	24	18122400	365	SECONDARY
18	12	24	CB35	419	SECONDARY
18	12	24	KR40	425	SECONDARY
18	12	25	18122500	366	SECONDARY
18	12	26	18122600	367	SECONDARY
18	12	26	18122640	368	SECONDARY
18	12	27	18122740	369	SECONDARY
18	12	28	18122840	456	SECONDARY
18	12	29	18122940	458	SECONDARY
18	12	29	18122900	457	SECONDARY
18	12	29	CB48	471	SECONDARY
18	12	29	CB50	473	SECONDARY
18	12	30	18123000	459	SECONDARY
18	12	30	GIS 035	23	PRIMARY
18	12	32	CB49	472	SECONDARY
18	12	36	GIS 025	13	PRIMARY
18	13	1	18130100	370	SECONDARY
18	13	2	18130200B	372	SECONDARY
18	13	2	CB30	414	SECONDARY
18	13	2	18130200A	371	SECONDARY
18	13	3	18130300	373	SECONDARY
18	13	3	GIS 043	31	PRIMARY
18	13	4	18130400	374	SECONDARY
18	13	5	CB14	226	SECONDARY
18	13	5	18130500	375	SECONDARY
18	13	6	18130600	376	SECONDARY
18	13	6	18130640	377	SECONDARY
18	13	7	18130700	378	SECONDARY
18	13	7	18130704	379	SECONDARY
18	13	7	18130740	380	SECONDARY
18	13	8	GOSNEY	422	SECONDARY
18	13	8	18130800	381	SECONDARY
18	13	9	18130900	382	SECONDARY
18	13	10	18131000	383	SECONDARY
18	13	11	18131100	384	SECONDARY
18	13	11	CB31	415	SECONDARY
18	13	12	18131200	385	SECONDARY
18	13	13	18131300	386	SECONDARY
18	13	14	18131400	387	SECONDARY
18	13	16	18131604	390	SECONDARY
18	13	16	18131600	389	SECONDARY
18	13	17	18131700	391	SECONDARY

TOWNSHIP	RANGE	SECTION	MARK NAME	NUMBER	TYPE
18	13	18	CB36	420	SECONDARY
18	13	18	18131800	392	SECONDARY
18	13	19	18131900	393	SECONDARY
18	13	19	RICKARD	430	SECONDARY
18	13	19	CB32	416	SECONDARY
18	13	19	R030	429	SECONDARY
18	13	20	18132000	394	SECONDARY
18	13	20	R020	428	SECONDARY
18	13	21	18132100	395	SECONDARY
18	13	21	18132140	396	SECONDARY
18	13	22	18132200	397	SECONDARY
18	13	23	18132300	398	SECONDARY
18	13	24	GIS 040	28	PRIMARY
18	13	24	18132400	399	SECONDARY
18	13	27	18132700	400	SECONDARY
18	13	27	18132740	401	SECONDARY
18	13	28	B-23 USGS	413	SECONDARY
18	13	28	18132800	402	SECONDARY
18	13	28	18132840	404	SECONDARY
18	13	28	18132804	403	SECONDARY
18	13	29	18132900	405	SECONDARY
18	13	30	18133000	406	SECONDARY
18	13	31	18133100	407	SECONDARY
18	13	31	CB33	417	SECONDARY
18	13	32	18133200	408	SECONDARY
18	13	33	18133300	409	SECONDARY
18	14	6	CB34	418	SECONDARY
18	14	6	18140600	410	SECONDARY
18	14	7	18140700	411	SECONDARY
18	14	31	18143100	412	SECONDARY
19	11	24	LAVA BUTTE (GIS 055)	43	PRIMARY
19	14	10	STATE HWY PI (GIS 061)	49	PRIMARY
19	14	33	W-22 1920 (GIS 057)	45	PRIMARY
19	15	31	J-372 1943 (GIS 058)	46	PRIMARY
20	9	18	GIS 042	30	PRIMARY
20	10	1	GIS 041	29	PRIMARY
20	10	33	GIS 069	57	PRIMARY
20	11	16	BNRR STA 369 + 48.3 (GIS 0	42	PRIMARY
20	15	21	PINE USGS (GIS 056)	44	PRIMARY
20	16	6	P-372 1943 (GIS 059)	47	PRIMARY
20	16	31	6-DPB-1978 (GIS 071)	59	PRIMARY
20	18	30	BROTHERS (GIS 060)	48	HIGH PRECISION
21	9	23	GIS 039	27	PRIMARY
21	10	18	CAREY 1971 (GIS 052)	40	PRIMARY
21	10	32	GIS 048	36	PRIMARY
21	10	36	Y 370 1942 (GIS 049)	37	PRIMARY
21	11	28	GIS 038	26	PRIMARY
22	9	7	WICKIUP (GIS 051)	39	HIGH PRECISION
22	12	2	PAULINA PEAK (GIS 053)	41	PRIMARY
22	14	4	GIS 072	60	PRIMARY
23	10	5	BEAL RM-1 (GIS 050)	38	PRIMARY
23	13	20	GIS 070	58	PRIMARY

SORT

BY

MARK NAME

Mark Name	Northing	Eastng	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
10132500	606839.483	3339052.302	+ 0°06'19.7895	1.000161741308	1.000047	2469.953	FIRST	478
10132604	606924.277	3336408.146	+ 0°05'54.0556	1.000161513489	1.000048	2443.826	FIRST	479
10133640	604274.971	3339063.611	+ 0°06'19.7827	1.000161742320	1.000047	2470.406	FIRST	480
10142900	606877.495	3349631.618	+ 0°08'02.6460	1.000162812545	1.000052	2392.930	SECOND	481
10143000	606895.934	3344354.772	+ 0°07'11.3320	1.000162246276	1.000043	2569.524	FIRST	482
10143140	604257.753	3344352.408	+ 0°07'11.2003	1.000162246041	1.000053	2359.275	FIRST	483
11130100	596486.308	3340035.501	+ 0°08'28.9419	1.000161830104	1.000058	2241.194	SECOND	484
11130200	596496.438	3334763.848	+ 0°05'37.7287	1.000161379878	1.000047	2463.558	FIRST	485
11130204	596484.931	3337399.575	+ 0°06'03.3342	1.000161597050	1.000057	2249.307	FIRST	486
11131004	591233.429	3332149.648	+ 0°05'12.1749	1.000161180155	1.000046	2487.209	FIRST	487
11131104-W.C.	591213.164	3337410.190	+ 0°06'03.2542	1.000161597962	1.000054	2313.874	FIRST	488
11131200	591208.318	3340033.472	+ 0°06'28.7261	1.000161829925	1.000052	2362.684	FIRST	489
11131300	585945.083	3340022.682	+ 0°06'28.4258	1.000161828945	1.000048	2454.554	FIRST	490
11131400	585945.644	3334763.764	+ 0°05'37.3875	1.000161379881	1.000051	2382.526	FIRST	491
11132204	580681.018	3332136.080	+ 0°05'11.7286	1.000161179167	1.000045	2506.184	SECOND	492
11132304	580654.195	3337391.107	+ 0°06'02.7027	1.000161596343	1.000046	2481.696	SECOND	493
11132400	580658.873	3340031.556	+ 0°06'28.3157	1.000161829762	1.000048	2457.717	FIRST	494
11140500	586436.360	3350345.617	+ 0°08'09.1009	1.000162894069	1.000047	2487.864	FIRST	495
11140600	586466.202	3345344.092	+ 0°07'20.5133	1.000162347615	1.000051	2388.980	FIRST	496
11140700	591197.074	3345346.182	+ 0°07'20.3118	1.000162347839	1.000057	2283.606	FIRST	497
11141900	580673.629	3345354.767	+ 0°07'19.9525	1.000162348744	1.000047	2480.205	FIRST	498
12131600	554342.812	3324387.843	+ 0°03'55.9740	1.000160679115	1.000035	2688.716	FIRST	499
12131700	554352.458	3319127.676	+ 0°03'05.0775	1.000160417754	1.000038	2641.159	FIRST	500
12131800	554353.922	3314094.661	+ 0°02'18.3786	1.000160228833	1.000039	2615.856	FIRST	501
13153040	514840.857	3377056.208	+ 0°12'22.7713	1.000168779924	1.000027	3378.120	FIRST	502
13153300	507039.305	3387696.898	+ 0°14'04.7082	1.000168781745	1.000027	3024.395	FIRST	503
13153500	507125.027	3398281.777	+ 0°15'46.6882	1.000171029581	1.000030	3020.089	FIRST	504
14120188 (GIS 020)	507864.645	3314126.522	+ 0°02'18.0808	1.000160227866	1.000031	2765.599	C	8
14132500 (GIS 028)	481286.616	3340550.347	+ 0°06'29.6294	1.000161877615	1.000024	2955.807	C	16
14150100	502413.407	3403778.125	+ 0°16'39.1582	1.000172297769	1.000033	2978.711	FIRST	505
14151300	491841.705	3403816.508	+ 0°16'38.5181	1.000172306952	1.000036	2926.380	FIRST	506
14151500	491876.679	3393275.462	+ 0°14'57.1390	1.000169934631	1.000038	2827.389	FIRST	507
14152200	486602.048	3393269.155	+ 0°14'56.6261	1.000169933322	1.000038	2821.522	FIRST	508
15131400 (GIS 027)	460142.991	3335307.375	+ 0°05'38.5673	1.000161423489	1.000019	3049.944	C	15
15140100	470810.276	3372107.898	+ 0°11'32.1541	1.000165937277	1.000025	3024.560	FIRST	509
15143500	444400.556	3367072.012	+ 0°10'41.7137	1.000165129366	1.000011	3297.337	FIRST	510
15150800	465521.229	3382691.923	+ 0°13'13.3455	1.000167808181	1.000021	3130.451	FIRST	511
15153000	449693.835	3377549.791	+ 0°12'22.8879	1.000166867348	1.000011	3327.464	FIRST	512
16113500	414986.366	3273674.831	+ 0°04'11.3483	1.000160791367	0.999998	3475.072	FIRST	249
16113600	414982.770	3278926.917	+ 0°03'21.2023	1.000160507098	1.000002	3383.379	FIRST	250
16120840 (GIS 029)	438699.767	3289383.189	+ 0°01'41.5977	1.000160128711	1.000011	3182.621	C	17
16122600	420250.834	3305164.949	+ 0°00'49.3389	1.000160030463	1.000007	3271.003	FIRST	78
16122604	420254.921	3307810.522	+ 0°01'14.6112	1.000160668682	1.000007	3271.486	FIRST	79

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
16123100	414970.226	3284239.171	-0°02'30.4816"	1.000160283657	1.000002	3374.597	FIRST	251
16123104	414958.399	3286700.029	-0°02'06.9857"	1.000160201993	1.000011	3197.439	FIRST	252
16123200	414952.566	3289337.730	-0°01'41.8013"	1.000160129818	1.000005	3314.773	FIRST	253
16123204	414952.551	3291975.600	-0°01'16.6155"	1.000160073529	1.000004	3331.495	FIRST	254
16123300	414952.863	3294614.421	-0°00'51.4205"	1.000160033121	1.000002	3372.604	FIRST	255
16123400	414950.321	3299891.880	-0°00'01.0324"	1.000160000013	1.000003	3345.034	FIRST	80
16123404	414955.668	3302539.666	-0°00'24.2484"	1.000160007365	1.000005	3321.985	FIRST	81
16123500	414970.285	3305168.515	+0°00'49.3481"	1.000160030505	1.000005	3312.983	SECOND	82
16123540	414990.200	3305166.472	+0°00'49.3410"	1.000160030481	1.000006	3295.348	FIRST	83
16123600	414949.943	3310460.404	+0°01'39.8743"	1.000160124949	1.000006	3289.412	FIRST	84
16133100	414939.328	3331551.820	+0°02'30.2170"	1.000160282861	1.000004	3332.650	FIRST	85
161333400	414980.764	3347410.789	+0°07'32.6690"	1.000162566791	1.000008	3308.651	FIRST	86
17110100	409694.226	3278932.074	-0°03'21.0514"	1.000160506851	0.999999	3447.120	FIRST	256
17110140	412338.599	3278929.532	-0°03'21.1265"	1.000160506973	1.000003	3355.844	FIRST	257
17110200	409725.750	3273663.528	-0°04'11.3298"	1.000160792049	0.999998	3517.314	FIRST	258
17110204	409706.792	3276299.072	-0°03'46.1783"	1.000160641457	0.999997	3493.312	FIRST	259
17111100	404476.789	3273643.553	-0°04'11.3942"	1.000160793254	0.999991	3620.307	FIRST	260
17111104	404467.132	3276308.116	-0°03'45.9788"	1.000160640970	0.999993	3579.752	SECOND	261
17111200	404435.276	3278980.176	-0°03'20.4915"	1.000160504541	0.999995	3535.544	SECOND	262
17111240	407064.474	3278956.372	-0°03'20.7690"	1.000160505684	0.999994	3555.150	FIRST	263
17111300	399173.838	3278963.602	-0°03'20.5486"	1.000160505339	0.999991	3607.292	FIRST	264
17111304	399169.904	3281597.733	-0°02'55.4363"	1.000160386708	0.999990	3638.621	SECOND	265
17111340	401811.355	3278963.067	-0°03'20.6043"	1.000160505364	0.999994	3560.737	FIRST	266
17111400	399193.857	3273643.327	-0°04'11.2694"	1.000160793270	0.999990	3635.747	FIRST	267
17111404	399183.356	3276297.031	-0°03'45.9703"	1.000160641572	0.999987	3703.034	FIRST	268
17111440	401836.103	3273646.170	-0°04'11.3058"	1.000160793088	0.999989	3656.220	FIRST	269
17112300	393918.327	3273623.353	-0°04'11.3330"	1.000160794476	0.999985	3742.524	FIRST	270
17112304	393911.814	3276287.616	-0°03'45.9461"	1.000160642084	0.999986	3720.072	FIRST	271
17112400	393905.270	3278951.942	-0°03'20.5587"	1.000160505901	0.999983	3783.088	FIRST	272
17112500	393901.888	3281588.210	-0°02'55.4387"	1.000160387109	0.999988	3676.149	SECOND	273
17112504	388636.072	3278928.962	-0°03'20.6766"	1.000160507008	0.999984	3763.437	FIRST	274
17112540	388639.769	3281569.385	-0°02'55.5298"	1.000160387902	0.999985	3747.898	FIRST	275
17112600	391259.336	3278946.740	-0°03'20.5575"	1.000160506152	0.999979	3736.331	FIRST	276
17112604	388648.536	3273615.730	-0°04'11.2790"	1.000160794938	0.999978	3863.579	FIRST	277
17112640	391298.493	3276283.114	-0°03'45.8751"	1.000160642330	0.999978	3897.249	FIRST	278
17113500	3833410.563	3273667.765	-0°04'10.6578"	1.000160791808	0.999979	3865.765	FIRST	279
17113504	383371.332	3276247.695	-0°03'46.0985"	1.000160644252	0.999980	3850.159	FIRST	280
17113540	386007.345	3273604.636	-0°04'11.3211"	1.000160795808	0.999976	3934.979	SECOND	281
17113600	383379.649	3278907.538	-0°03'20.7796"	1.000160508041	0.999983	3793.108	FIRST	282
17113604	383367.287	3281550.509	-0°02'55.6210"	1.000160398689	0.999985	3747.906	FIRST	283
17113640	386007.812	3278918.259	-0°03'20.7280"	1.000160507524	0.999985	3748.658	FIRST	284

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
17120100	409704.737	3310479.975	+0°01'40.0106"	1.000180125417	1.000002	3373.003	FIRST	88
17120140	412343.929	3310478.599	+0°01'40.0227"	1.000180125384	1.000004	3332.815	FIRST	89
17120200	409694.123	3305130.407	+0°00'48.9595"	1.000180030057	1.000003	3361.991	FIRST	90
17120204	409701.099	3307777.273	+0°01'14.2187"	1.000180069070	1.000005	3357.944	SECOND	91
17120240	412334.363	3305143.950	+0°00'49.1012"	1.000180030215	1.000003	3320.587	FIRST	92
17120300	409669.910	3299893.255	+0°00'01.0187"	1.000180000013	1.000002	3376.295	FIRST	93
17120304	409686.895	3302513.813	+0°00'23.9893"	1.000180007216	1.000001	3388.229	FIRST	94
17120340	412313.438	3299895.886	+0°00'00.9938"	1.000180000012	1.000002	3376.018	FIRST	95
17120400	409669.428	3294646.162	+0°00'51.0916"	1.000180032732	1.000000	3421.580	FIRST	286
17120404	409669.672	3297259.000	+0°00'26.1573"	1.000180008579	1.000000	3411.946	FIRST	287
17120500	409660.224	3289362.668	+0°01'41.5118"	1.000180129212	1.000000	3422.800	FIRST	288
17120504	409663.806	3291998.894	+0°01'16.3544"	1.000180073103	1.000000	3421.065	FIRST	289
17120540	412318.729	3289391.195	+0°01'41.2654"	1.000180128520	1.000003	3356.449	FIRST	290
17120600	409680.620	3284230.985	+0°02'30.4837"	1.000180283953	1.000004	3346.181	FIRST	291
17120604	409678.274	3286731.002	+0°02'06.6260"	1.000180201054	1.000008	3258.948	FIRST	292
17120640	412330.360	3284236.364	+0°02'30.4705"	1.000180283759	1.000004	3340.297	FIRST	293
17120700	404428.160	3284224.340	+0°02'30.4715"	1.000180284193	0.999998	3467.772	SECOND	294
17120800	404383.484	3289350.983	+0°01'41.5721"	1.000180129496	0.999996	3508.209	FIRST	295
17120804	404380.575	3292000.518	+0°01'16.3004"	1.000180073074	0.999997	3484.442	FIRST	296
17120840	407021.226	3289356.480	+0°01'41.5453"	1.000180129382	0.999998	3470.525	FIRST	297
17120900	404381.136	3294841.768	+0°00'51.1077"	1.000180032778	0.999997	3458.597	FIRST	298
17120904	404382.657	3297286.549	+0°00'25.8814"	1.0001800032408	0.999998	3457.462	FIRST	299
17120940	407023.814	3294643.916	+0°00'51.1001"	1.000180032759	0.999999	3449.220	FIRST	299
17121000	404381.304	3299891.286	+0°00'01.0369"	1.000180000013	0.999998	3458.332	SECOND	97
17121004	404399.600	3302515.257	+0°00'23.9910"	1.000180007224	0.999998	3452.794	SECOND	98
17121100	404411.961	3305131.740	+0°00'48.9475"	1.000180030072	0.999999	3430.059	SECOND	99
17121104	404415.576	3307794.168	+0°01'14.3423"	1.000180069371	1.000001	3407.557	SECOND	100
17121140	407051.903	3305131.302	+0°00'48.9557"	1.000180030067	1.000001	3391.469	FIRST	101
17121200	404425.243	3310456.552	+0°01'39.7367"	1.000180124858	1.000000	3415.246	SECOND	102
17121204	404394.740	3313088.917	+0°02'04.8444"	1.000180195635	1.000001	3399.506	FIRST	103
17121300	399113.784	3310467.310	+0°01'39.7886"	1.000180125115	0.999999	3439.300	SECOND	104
17121304	399635.538	3313087.217	+0°02'04.7649"	1.000180195585	0.999998	3455.728	SECOND	105
17121340	401775.247	3310461.563	+0°01'39.7592"	1.000180124978	1.000000	3426.529	FIRST	106
17121400	399116.587	3305150.609	+0°00'49.1026"	1.000180030294	0.999998	3458.717	FIRST	107
17121404	399115.788	3307799.128	+0°01'14.3519"	1.000180069460	0.999998	3459.120	FIRST	108
17121440	401765.156	3305141.248	+0°00'49.0258"	1.000180030184	0.999998	3453.350	SECOND	109
17121500	399092.249	3299890.959	+0°00'01.0395"	1.000180000014	0.999997	3476.344	FIRST	110
17121504	399099.096	3302521.767	+0°00'24.0409"	1.000180007262	0.999997	3471.169	FIRST	111
17121540	401736.922	3299886.817	+0°00'01.0793"	1.000180000015	0.999997	3476.644	FIRST	112
17121600	399097.837	3294633.481	+0°00'51.1609"	1.000180032887	0.999995	3524.447	FIRST	300
17121604	399094.716	3297262.374	+0°00'26.0987"	1.000180008558	0.999996	3500.903	FIRST	113
17121640	401741.913	3294642.879	+0°00'51.0842"	1.000180032772	0.999996	3503.963	FIRST	301
17121700	399138.839	3289342.805	+0°01'41.5991"	1.000180129696	0.999994	3535.201	FIRST	302

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
17121740	401750.064	3289349.769	-0°01'41.5581"	1.000160129526	0.999995	3515.829	FIRST	303
17121800	399170.238	3284172.950	-0°02'30.8858"	1.000160286049	1.000000	3416.208	FIRST	304
17121840	401799.481	3284198.895	-0°02'30.6763"	1.000160285111	0.999996	3500.892	FIRST	305
17121900	393904.498	3284223.753	-0°02'30.3257"	1.000160284216	0.999977	3896.013	SECOND	306
17121904	393867.122	3286686.906	-0°02'06.8549"	1.000160202395	0.999967	4119.805	SECOND	307
17121940	396540.906	3284208.129	-0°02'30.5125"	1.000160284779	0.999984	3756.497	FIRST	308
17122000	393861.485	3289323.796	-0°01'41.7290"	1.000160130159	0.999972	4002.350	FIRST	309
17122004	393854.262	3291949.454	-0°01'16.7102"	1.000160074010	0.999987	3686.120	FIRST	310
17122040	396496.181	3289335.956	-0°01'41.6387"	1.000160129863	0.999982	3794.680	FIRST	311
17122100	393811.310	3294605.422	-0°00'51.4024"	1.000160033232	0.999994	3542.448	FIRST	312
17122104	393805.385	3297262.262	-0°00'26.0866"	1.000160008559	0.999993	3564.260	FIRST	313
17122140	396456.210	3294621.578	-0°00'51.2614"	1.000160033033	0.999994	3546.266	FIRST	314
17122200	393791.542	3299906.854	-0°00'00.8875"	1.000160000010	0.999995	3527.816	FIRST	114
17122240	393804.430	3302524.148	+0°00'24.0514"	1.000160007276	0.999995	3511.487	SECOND	115
17122240	396442.071	3299894.695	-0°00'01.0037"	1.000160000013	0.999995	3518.733	FIRST	116
17122300	393825.032	3305142.951	+0°00'49.0048"	1.000160030204	0.999995	3519.851	FIRST	117
17122304	393828.046	3307793.903	+0°01'14.2645"	1.000160069367	0.999995	3519.168	FIRST	118
17122340	396463.285	3305142.048	+0°00'49.0086"	1.000160030193	0.999997	3478.303	SECOND	119
17122400	393831.866	3310447.790	+0°01'39.5523"	1.000160124649	0.999996	3502.465	FIRST	120
17122404	393812.574	3313095.765	+0°02'04.7834"	1.000160195841	0.999995	3525.614	FIRST	121
17122440	396473.328	3310461.909	+0°01'39.7120"	1.000160124986	0.999997	3475.130	SECOND	122
17122500	388547.254	3310433.494	+0°01'39.3658"	1.000160124309	0.999992	3585.196	SECOND	123
17122504	388534.381	3313092.785	+0°02'04.8920"	1.000160195752	0.999993	3575.356	SECOND	124
17122540	391190.120	3310440.965	+0°01'39.4621"	1.000160124487	0.999994	3536.779	SECOND	125
17122600	388546.521	3305148.454	+0°00'49.0325"	1.000160030269	0.999992	3582.612	SECOND	126
17122604	388546.166	3307781.428	+0°01'14.1082"	1.000160069145	0.999992	3588.787	FIRST	127
17122640	391181.833	3305146.364	+0°00'49.0250"	1.000160030244	0.999994	3546.888	FIRST	128
17122700	388512.395	3299887.922	-0°00'01.0653"	1.000160000014	0.999988	3674.790	SECOND	129
17122704	388531.582	3302516.783	+0°00'23.9691"	1.000160007233	0.999992	3582.343	SECOND	130
17122740	391147.045	3299896.038	-0°00'00.9904"	1.000160000012	0.999993	3556.397	FIRST	131
17122800	388601.229	3294564.805	-0°00'51.7636"	1.000160033734	0.999991	3607.361	FIRST	315
17122840	391239.362	3294589.715	-0°00'51.5394"	1.000160033426	0.999992	3586.622	FIRST	316
17122900	388599.596	3289343.012	-0°01'41.4948"	1.000160129692	0.999987	3691.136	FIRST	317
17122904	388602.967	3291969.350	-0°01'16.4822"	1.000160073645	0.999992	3593.910	FIRST	318
17122940	391223.978	3286329.367	-0°01'41.6446"	1.000160130009	0.999973	3981.688	FIRST	319
17123000	388625.626	3284210.792	-0°02'30.3733"	1.000160284684	0.999984	3756.583	FIRST	320
17123004	388602.485	3286699.072	-0°02'06.6751"	1.000160202026	0.999983	3776.541	FIRST	321
17123040	391265.171	3284217.112	-0°02'30.3511"	1.000160284456	0.999972	4001.230	FIRST	322
17123100	383359.485	3284198.130	-0°02'30.4181"	1.000160285142	0.999981	3820.352	FIRST	323
17123140	383337.879	3286701.729	-0°02'06.5861"	1.000160201946	0.999988	3649.229	FIRST	324
17123140	385993.610	3284207.805	-0°02'30.3639"	1.000160284793	0.999988	3674.140	FIRST	325
17123204	383319.223	3291972.297	-0°01'16.4155"	1.000160073591	0.999990	3624.053	FIRST	326
17123300	383311.310	3294611.624	-0°00'51.2918"	1.000160033156	0.999989	3654.030	FIRST	327

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
17123304	383292.484	3297251.522	+0°00'26.1626"	1.000160008626	0.999987	3688.891	FIRST	328
17123340	385973.718	3294589.641	+0°00'51.5141"	1.000160033427	0.999990	3622.962	FIRST	329
17123400	383286.354	3299892.953	+0°00'01.0190"	1.000160000013	0.999989	3657.457	SECOND	132
17123440	383288.668	3302541.339	+0°00'24.1909"	1.000160007375	0.999988	3666.003	SECOND	133
17123400	385930.490	3299893.329	+0°00'01.0157"	1.000160000013	0.999973	3987.362	FIRST	134
17123500	383300.463	3305191.261	+0°00'49.4154"	1.000160030774	0.999989	3653.265	SECOND	135
17123504	383285.766	3307842.253	+0°01'14.6500"	1.000160070231	0.999989	3652.835	FIRST	136
17123540	385912.900	3305147.233	+0°00'49.0085"	1.000160030255	0.999991	3611.171	SECOND	137
17123600	383272.482	3310490.665	+0°01'39.8599"	1.000160125875	0.999990	3620.784	FIRST	138
17123604	383250.611	3313111.865	+0°02'04.8107"	1.000160196324	0.999990	3628.921	FIRST	139
17123640	385910.146	3310462.056	+0°01'39.6127"	1.000160124991	0.999991	3612.217	FIRST	140
17130600	409633.055	3315729.517	+0°02'30.1060"	1.000160282532	1.000002	3372.399	FIRST	141
17130700	404364.277	3315723.082	+0°02'29.8691"	1.000160282302	1.000001	3401.053	FIRST	142
17130704	404353.002	3318328.733	+0°02'54.8219"	1.000160383622	1.000001	3394.080	FIRST	143
17130740	406997.493	3315729.895	+0°02'30.0718"	1.000160282546	1.000003	3353.691	FIRST	144
17130800	404366.825	3320999.648	+0°03'20.2977"	1.000160503573	1.000002	3376.037	FIRST	145
17130804	404375.712	3323849.056	+0°03'45.5683"	1.000160638655	1.000002	3383.673	FIRST	146
17130900	404355.812	3326304.342	+0°04'10.8943"	1.000160790121	1.000003	3361.545	FIRST	147
17131000	404377.526	3331570.490	+0°05'01.1240"	1.000161138155	1.000004	3367.360	FIRST	148
17131400	399128.204	3336826.705	+0°05'51.0821"	1.000161548695	1.000007	3311.345	FIRST	149
17131500	399093.646	3331571.154	+0°05'00.9782"	1.000161138207	1.000004	3354.141	SECOND	150
17131600	399110.873	3334199.094	+0°05'26.0317"	1.000161335579	1.000006	3320.334	FIRST	151
17131604	399073.219	3326305.126	+0°04'10.7751"	1.000160790171	1.000003	3375.783	FIRST	152
17131640	401714.555	3328938.285	+0°04'35.8780"	1.000160956281	1.000003	3375.537	FIRST	153
17131700	399085.411	3321001.415	+0°04'10.8340"	1.000160790142	1.000002	3389.000	FIRST	154
17131704	399079.352	3323653.066	+0°03'45.4923"	1.000160503660	1.000000	3426.068	SECOND	155
17131740	401726.040	3321000.930	+0°03'20.2594"	1.000160503635	1.000001	3405.285	FIRST	156
17131800	399082.836	3315720.446	+0°02'29.8682"	1.000160282208	0.999998	3460.414	SECOND	158
17131804	399084.134	3318361.578	+0°02'55.0470"	1.000160384999	0.999999	3453.462	FIRST	159
17131840	401722.077	3315722.831	+0°02'29.9288"	1.000160282293	0.999999	3440.122	FIRST	160
17131900	393792.807	3315743.784	+0°02'30.0148"	1.000160283048	0.999997	3491.962	FIRST	161
17131904	393795.069	3318343.496	+0°02'54.7862"	1.000160384243	0.999996	3501.520	FIRST	162
17131940	396437.569	3315732.137	+0°02'29.9417"	1.000160282629	0.999996	3496.754	FIRST	163
17132000	393797.343	3321000.215	+0°03'20.1008"	1.000160503604	0.999998	3467.091	FIRST	164
17132004	393790.102	3323646.831	+0°03'45.3189"	1.000160383539	1.000000	3428.086	FIRST	165
17132040	396443.907	3321000.861	+0°03'20.1576"	1.000160503634	0.999998	3462.952	FIRST	166
17132100	393806.909	3326292.630	+0°04'10.5298"	1.000160789423	1.000000	3441.992	SECOND	167
17132104	393784.375	3326936.849	+0°04'35.7246"	1.000160956190	1.000001	3411.451	FIRST	168
17132140	396447.278	3326298.820	+0°04'10.6520"	1.000160789793	1.000003	3391.050	FIRST	169
17132200	393803.112	3331583.609	+0°05'00.9447"	1.000161139109	1.000002	3384.759	FIRST	170
17132204	393822.102	3334426.421	+0°05'26.1273"	1.000161337718	1.000004	3357.706	FIRST	171
17132240	396448.417	3331577.355	+0°05'00.9612"	1.000161138656	1.000003	3375.926	FIRST	172

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
17132300	3938833.082	3336874.375	+0°05'51.3586"	1.000161552713	1.000004	3368.111	FIRST	173
17132340	3964883.995	3336847.729	+0°05'51.1937"	1.000161550467	1.000006	3329.684	FIRST	174
17132600	388553.887	3336878.904	+0°05'51.2244"	1.000161553099	1.000001	3425.978	FIRST	175
17132640	391190.169	3336879.649	+0°05'51.3201"	1.000161553160	1.000002	3403.855	FIRST	176
17132700	388526.919	3331577.557	+0°05'00.7352"	1.000161138676	0.999999	3468.174	FIRST	177
17132740	391158.320	3331572.944	+0°05'00.7670"	1.000161138341	1.000000	3441.334	FIRST	178
17132800	388536.690	3328286.128	+0°04'10.3414"	1.000160789035	0.999998	3480.266	FIRST	179
17132804	388532.127	3328282.209	+0°04'35.5038"	1.000160955622	0.999998	3480.266	FIRST	180
17132840	391165.981	3326285.224	+0°04'10.3959"	1.000160788979	1.000000	3437.365	FIRST	181
17132900	388515.991	3320994.103	+0°03'19.9415"	1.000160503312	0.999995	3538.719	SECOND	182
17132904	388521.391	3323639.951	+0°03'45.1399"	1.000160638170	0.999997	3498.789	FIRST	183
17132940	391154.011	3320995.028	+0°03'20.0008"	1.000160503356	0.999997	3482.535	FIRST	184
17133000	388521.259	3315751.758	+0°02'30.0151"	1.000160283335	0.999993	3562.065	SECOND	185
17133004	388518.607	3318353.161	+0°02'54.7901"	1.000160384649	0.999995	3529.947	FIRST	186
17133040	391152.837	3315746.201	+0°02'30.0000"	1.000160283135	0.999995	3530.881	FIRST	187
17133100	383228.772	3315733.176	+0°02'29.7624"	1.000160282668	0.999990	3624.570	FIRST	188
17133104	383228.520	3318365.818	+0°02'54.8221"	1.000160385181	0.999992	3589.638	FIRST	189
17133140	388874.991	3315742.809	+0°02'29.8920"	1.000160283014	0.999992	3584.907	FIRST	190
17133200	383228.537	3321008.471	+0°03'19.9772"	1.000160504003	0.999993	3569.408	FIRST	191
17133204	383241.344	3323652.110	+0°03'45.1420"	1.000160638828	0.999994	3548.348	SECOND	192
17133240	385869.485	3321001.487	+0°03'19.9613"	1.000160503667	0.999994	3552.391	SECOND	193
17133240a	385872.979	3321011.897	+0°03'20.0604"	1.000160504167	0.999994	3552.201	SECOND	194
17133300	383254.303	3326295.723	+0°04'10.3065"	1.000160789614	0.999993	3573.355	FIRST	195
17133304	383259.111	3328930.952	+0°04'35.3911"	1.000160955807	0.999994	3552.817	FIRST	196
17133340	383258.937	3326293.109	+0°04'10.3446"	1.000160789455	0.999995	3531.180	FIRST	197
17133400	383264.705	3331565.626	+0°05'00.4704"	1.000161137820	0.999994	3564.430	FIRST	198
17133404	383267.573	3334207.511	+0°05'25.6182"	1.000161336250	0.999996	3536.572	FIRST	199
17133440	385895.458	3331571.614	+0°05'00.6030"	1.000161138249	0.999996	3514.403	FIRST	200
17133500	383269.930	3336847.301	+0°05'50.7462"	1.000161550444	0.999998	3496.857	FIRST	201
17133540	385911.701	3336877.463	+0°05'51.1220"	1.000161552981	0.999999	3462.195	FIRST	202
17141800	399131.710	3347399.747	+0°07'31.8783"	1.000162565622	1.000006	3340.622	FIRST	203
17142600 (GIS 026)	38712.353	3367383.686	+0°10'41.6888"	1.0001625185084	1.000007	3379.800	C	14
17143100	383278.707	3347400.443	+0°07'31.2004"	1.000162565723	1.000001	3443.904	FIRST	204
18110100	378078.691	3278849.316	+0°03'21.2318"	1.000160510852	0.999984	3764.766	FIRST	432
18110204	378024.870	3276189.609	+0°03'46.5356"	1.000160647409	0.999980	3853.071	FIRST	433
18111100	372759.545	3273483.319	+0°04'12.1588"	1.000160802945	0.999973	4003.015	FIRST	434
18111104	372774.054	3276136.846	+0°03'46.9235"	1.000160850283	0.999974	3973.009	SECOND	435
18111200	372789.166	3278790.067	+0°03'21.6935"	1.000160513719	0.999979	3870.167	FIRST	436
18111300	367444.992	3278705.656	+0°03'22.3927"	1.000160517818	0.999981	3823.871	SECOND	437
18111400	367469.885	3273434.008	+0°04'12.4977"	1.000160805937	1.000161	0.000	THIRD	438
18111500	367474.887	3268089.677	+0°05'03.2932"	1.000161162817	0.999970	4072.889	SECOND	439
18112200	362191.973	3268083.846	+0°05'03.6799"	1.000161166967	0.999973	4011.339	FIRST	440
18112300	362196.823	3273395.301	+0°04'12.7381"	1.000160808290	0.999975	3947.797	FIRST	441

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
18112304	362194.405	3276040.466	-0°03'47.6097"	1.000160655552	0.999976	3936.249	FIRST	442
18112440	364814.062	3278717.450	-0°03'22.2297"	1.000160517246	0.999978	3892.770	FIRST	443
18112540	356894.758	3278636.764	-0°03'22.8427"	1.000160521178	0.999970	4047.484	FIRST	444
18112540	359527.256	3278662.430	-0°03'22.6500"	1.000160519925	0.999976	3933.483	SECOND	445
18120100	378018.231	3310449.466	+0°01'39.4178"	1.000160124691	0.999987	3893.269	FIRST	340
18120104	377982.112	3313064.918	+0°02'04.3011"	1.000160194921	0.999986	3714.712	FIRST	341
18120140	380670.973	3310470.281	+0°01'39.6411"	1.000160125188	0.999988	3860.809	FIRST	342
18120200	378069.182	3305170.087	+0°00'49.1892"	1.000160030524	1.000160	0.000	SECOND	343
18120204	378043.556	3307809.465	+0°01'14.3006"	1.000160069645	0.999987	3697.444	FIRST	344
18120240	380711.619	3305186.583	+0°00'49.3586"	1.000160030719	1.000160	0.000	SECOND	345
18120300	378036.546	3299895.969	-0°00'00.9898"	1.000160000012	1.000160	0.000	SECOND	346
18120304	378098.643	3302516.405	+0°00'23.9416"	1.000160007231	1.000160	0.000	SECOND	347
18120340	380673.958	3299883.226	-0°00'01.1113"	1.000160000016	0.999986	3703.410	FIRST	348
18120500	378048.532	3289431.665	-0°01'40.5490"	1.000160127544	0.999989	3646.571	SECOND	446
18120540	380678.520	3289324.982	-0°01'41.5895"	1.000160130131	0.999989	3659.219	FIRST	447
18120600	378072.174	3284142.209	-0°02'30.8741"	1.000160287165	0.999984	3751.704	FIRST	448
18120700	372761.353	3284084.859	-0°02'31.3429"	1.000160289247	0.999983	3776.086	SECOND	449
18120800	372771.898	3289424.159	-0°01'40.5697"	1.000160127725	0.999981	3815.022	SECOND	450
18120900	372762.106	3294617.170	-0°00'51.1873"	1.000160033088	0.999984	3780.328	FIRST	451
18121000	372757.092	3299792.452	-0°00'01.9736"	1.000160000049	0.999985	3719.161	FIRST	452
18121004	372791.785	3302476.104	+0°00'23.5463"	1.000160007001	0.999985	3729.810	FIRST	350
18121040	375393.207	3299859.048	-0°00'01.3407"	1.000160000023	0.999986	3709.934	FIRST	351
18121100	372771.532	3305105.804	+0°00'48.5530"	1.000160029770	0.999986	3715.405	FIRST	352
18121104	372753.270	3307757.365	+0°01'13.7676"	1.000160068719	0.999986	3705.740	FIRST	353
18121140	375420.362	3305137.807	+0°00'48.8697"	1.000160030144	0.999986	3705.543	FIRST	354
18121200	372735.327	3310409.583	+0°01'38.9883"	1.000160123741	0.999987	3692.010	FIRST	355
18121204	372691.083	3313023.513	+0°02'03.8445"	1.000160193688	0.999984	3760.698	FIRST	356
18121240	375379.732	3310445.399	+0°01'39.3540"	1.000160124594	0.999987	3683.471	FIRST	357
18121300	367405.097	3310240.902	+0°01'39.0454"	1.000160124011	0.999986	3711.461	SECOND	358
18121340	370093.755	3310403.691	+0°01'38.9073"	1.000160123601	0.999986	3712.924	FIRST	359
18121400	367475.291	3305049.286	+0°00'47.9913"	1.000160029114	0.999985	3739.773	SECOND	360
18121404	367450.335	3307774.874	+0°01'13.8966"	1.000160069030	0.999987	3700.134	FIRST	361
18121500	367472.262	3299799.112	-0°00'01.9094"	1.000160000046	0.999984	3753.397	FIRST	362
18121600	367427.618	3294569.999	-0°00'51.6095"	1.000160033670	0.999980	3841.010	FIRST	452
18121700	367489.217	3289381.078	-0°01'40.9283"	1.000160128768	0.999980	3848.247	SECOND	453
18121800	367455.112	3284029.356	-0°02'31.7936"	1.000160291269	0.999980	3851.469	FIRST	454
18122000	362208.310	3289287.687	-0°01'41.7646"	1.000160131044	0.999977	3908.664	FIRST	455
18122200	362185.849	3299773.037	-0°00'02.1561"	1.000160000059	0.999979	3846.336	FIRST	363
18122300	362186.526	3305031.941	+0°00'47.8022"	1.000160028915	0.999977	3894.185	FIRST	364
18122400	362166.838	3310303.167	+0°01'37.8774"	1.000160121225	0.999981	3811.821	FIRST	365
18122500	356832.902	3310241.412	+0°01'37.2411"	1.000160119776	0.999975	3951.473	FIRST	366
18122600	356889.889	3305022.034	+0°00'47.6839"	1.000160028801	0.999971	4019.905	FIRST	367
18122640	359537.595	3305025.466	+0°00'47.7286"	1.000160028841	0.999976	3917.593	FIRST	368

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
18122740	359549.600	3299751.721	-0°00'02.3580"	1.000160000070	0.999976	3919.457	FIRST	369
18122840	359538.994	3294496.947	-0°00'52.2644"	1.000160034583	0.999974	3957.473	FIRST	456
18122900	356930.263	3289209.148	-0°01'42.4589"	1.000160132973	0.999971	4033.592	SECOND	457
18122940	359570.954	3289248.653	-0°01'42.1096"	1.000160132001	0.999974	3964.692	SECOND	458
18123000	356822.050	3283929.023	-0°02'32.5935"	1.000160294942	0.999974	3989.588	FIRST	459
18130100	377989.654	3342106.758	+0°06'40.6079"	1.000162024650	0.999998	3495.588	FIRST	370
18130200A	377985.706	3336817.685	+0°05'50.2872"	1.000161547958	0.999995	3548.397	SECOND	371
18130200B	377990.216	3336813.319	+0°05'50.2458"	1.000161547591	0.999995	3547.746	SECOND	372
18130300	377990.868	3331555.245	+0°05'00.2201"	1.000161137075	0.999993	3595.982	FIRST	373
18130400	377971.839	3326303.327	+0°04'10.2524"	1.000160790073	0.999991	3619.338	FIRST	374
18130500	377962.705	3321014.481	+0°03'19.9337"	1.000160504293	0.999991	3607.512	FIRST	375
18130600	377945.279	3315702.317	+0°02'29.3931"	1.000160281562	0.999986	3713.509	FIRST	376
18130640	380587.498	3315731.505	+0°02'29.7086"	1.000160282609	0.999988	3676.874	FIRST	377
18130700	372647.726	3315637.142	+0°02'28.6977"	1.000160279230	0.999985	3743.702	FIRST	378
18130704	372671.882	3318363.846	+0°02'54.6270"	1.000160385101	0.999986	3721.508	FIRST	379
18130740	375298.468	3315669.680	+0°02'29.0448"	1.000160280393	0.999986	3711.140	FIRST	380
18130800	372668.517	3321011.757	+0°03'19.8085"	1.000160504164	0.999988	3680.942	FIRST	381
18130900	372667.975	3326299.112	+0°04'10.0862"	1.000160789823	0.999988	3694.844	FIRST	382
18131000	372700.729	3331529.352	+0°04'59.8220"	1.000161135214	0.999992	3610.466	FIRST	383
18131100	372707.206	3336843.861	+0°05'50.3593"	1.000161550165	0.999993	3597.661	SECOND	384
18131200	372701.445	3342103.936	+0°06'40.3785"	1.000162024386	0.999997	3513.732	FIRST	385
18131300	367420.053	3342093.287	+0°06'40.0751"	1.000162023368	0.999994	3578.367	FIRST	386
18131400	367419.259	3336817.018	+0°05'49.9271"	1.000161547912	0.999989	3688.641	FIRST	387
18131500	367407.839	3331500.759	+0°04'59.3986"	1.000161133160	0.999986	3718.836	FIRST	388
18131600	367412.063	3326230.529	+0°04'09.3079"	1.000160785711	0.999986	3721.291	FIRST	389
18131604	367410.311	3328865.834	+0°04'34.3551"	1.000160951518	0.999987	3699.738	FIRST	390
18131700	367380.147	3320966.841	+0°03'19.2767"	1.000160502013	0.999985	3751.449	FIRST	391
18131800	367362.865	3315602.752	+0°02'28.2957"	1.000160278004	0.999983	3777.790	FIRST	392
18131900	362086.797	3315562.165	+0°02'27.8353"	1.000160276561	0.999981	3820.529	SECOND	393
18132000	362100.947	3320889.973	+0°03'18.4479"	1.000160498340	0.999982	3806.548	FIRST	394
18132100	362097.348	3326195.792	+0°04'08.8513"	1.000160783634	0.999981	3838.101	FIRST	395
18132140	364754.820	3326212.965	+0°04'09.0777"	1.000160784661	0.999985	3748.828	FIRST	396
18132200	362122.285	3331487.867	+0°04'59.1248"	1.000161132236	0.999983	3806.078	FIRST	397
18132300	362127.142	3336790.138	+0°05'49.4947"	1.000161546558	0.999985	3756.362	FIRST	398
18132400	362133.875	3342076.045	+0°06'39.7091"	1.000162027718	0.999991	3651.509	FIRST	399
18132700	356828.078	3331474.344	+0°04'58.8450"	1.000161131268	0.999977	3917.631	FIRST	400
18132740	359483.715	3331482.811	+0°04'59.0013"	1.000161131874	0.999981	3832.065	FIRST	401
18132800	356787.147	3326160.398	+0°04'08.3888"	1.000160781521	0.999974	3973.968	FIRST	402
18132804	356807.606	3328817.321	+0°04'33.6164"	1.000160948329	0.999976	3944.482	FIRST	403
18132840	359476.243	3326190.291	+0°04'08.7366"	1.000160783307	0.999977	3914.841	FIRST	404
18132900	356816.699	3320855.763	+0°03'18.0228"	1.000160496711	0.999977	3899.291	FIRST	405
18133000	356801.201	3315527.422	+0°02'27.4307"	1.000160276528	0.999975	3949.379	SECOND	406
18133100	351513.012	3315553.451	+0°02'27.6981"	1.000160276608	0.999970	4054.865	FIRST	407

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
18133200	351521.792	3320864.807	+0°03'18.0084"	1.000160497144	0.999967	4118.925	SECOND	408
18133300	351543.510	3326154.340	+0°04'08.2068"	1.000160781162	0.999969	4077.051	FIRST	409
18140600	377993.853	3347382.933	+0°07'30.8058"	1.000162563837	1.000001	3451.824	SECOND	410
18140700	372713.192	3347370.214	+0°07'30.4573"	1.000162562469	0.999999	3497.403	FIRST	411
18143100	351591.070	3347308.609	+0°07'28.9636"	1.000162555943	0.999982	3839.327	FIRST	412
2711 PpL	497658.337	3308516.865	+0°01'21.9830	1.000160082827	1.000034	2710.105	FIRST	513
2906 PRE	494432.193	3341856.434	+0°06'40.7606	1.000161981427	1.000026	2905.260	FIRST	514
2971 RESET	502981.931	3398574.788	+0°15'49.1054	1.000171095475	1.000032	2968.176	FIRST	515
6-DPB-1978 (GIS 071)	258479.657	3415456.888	+0°18'05.9642"	1.000175223821	0.999943	4936.853	C	59
AE60	38853.647	3315730.903	+0°02'29.8167"	1.000160282588	0.999993	3561.695	FIRST	205
AE70	388499.605	3313462.722	+0°02'08.2148"	1.000160206971	0.999992	3583.841	FIRST	206
AE80	388537.109	3310409.699	+0°01'39.1391"	1.000160123743	0.999992	3585.158	FIRST	207
B-23 USGS	356793.958	3327563.661	+0°04'21.7127"	1.000160867612	0.999975	3956.625	FIRST	413
B-366	504627.829	3325724.402	+0°04'07.7263	1.000160755616	1.000032	2759.229	FIRST	516
B001	401815.508	3295782.482	-0°00'40.2175"	1.000160020312	0.999996	3504.809	FIRST	63
B002	397669.690	3295526.103	-0°00'42.8454"	1.000160022857	0.999993	3554.345	FIRST	64
B003	391450.758	3295095.478	-0°00'46.7223"	1.0001600227469	0.999990	3620.349	FIRST	65
B005	384227.359	3293876.067	-0°00'58.2986"	1.000160042826	0.999989	3638.275	FIRST	66
B006	381209.865	3294111.154	-0°00'56.0445"	1.000160039601	0.999988	3678.546	FIRST	67
B007	379458.466	3294077.122	-0°00'56.3589"	1.000160040080	0.999986	3703.664	FIRST	68
B008	376413.619	3292069.560	-0°01'15.4398"	1.000160071819	0.999984	3751.818	FIRST	69
B009	374386.221	3290936.205	-0°01'26.2043"	1.000160093814	0.999982	3787.146	FIRST	70
B010	373514.684	3290862.861	-0°01'26.8947"	1.000160095338	0.999983	3787.318	FIRST	71
B011	372331.276	3291310.094	-0°01'22.6321"	1.000160088634	0.999982	3784.994	FIRST	72
B012	370481.636	3290848.459	-0°01'27.0064"	1.0001600956239	0.999982	3791.854	FIRST	73
B013	368477.597	3289799.703	-0°01'36.9586"	1.000160118816	0.999980	3834.589	FIRST	74
B014	393843.597	3295517.524	-0°00'42.7115"	1.000160022944	0.999993	3562.207	FIRST	75
BA40	399077.803	3310448.582	+0°01'39.6098"	1.000160124668	0.999999	3438.160	FIRST	208
BA50	399106.252	3313508.735	+0°02'08.7835"	1.000160208386	0.999998	3463.181	FIRST	209
BA60	399060.786	3315738.029	+0°02'30.0355"	1.000160282840	0.999998	3460.233	FIRST	210
BEAL RM-1 (GIS 050)	224792.271	3230007.217	-0°10'56.2273"	1.000165594958	0.999965	4267.185	C	38
BEND AIRPORT (GIS 046)	398752.410	3321022.927	+0°03'20.4121"	1.000160504692	1.000000	3429.826	C	34
BIG FALLS (GIS 033)	507512.899	3296591.371	-0°00'32.8342"	1.000160013267	1.000024	2924.503	A	21
BROTHERS (GIS 060)	297435.917	3480331.814	+0°28'22.4505"	1.000197138536	0.999979	4634.974	B	48
BUTLER	396500.047	3310480.087	+0°01'39.8855"	1.000160125421	0.999997	3474.507	FIRST	212
C-15 PpL	526428.865	3318483.398	+0°02'58.3668	1.000160390093	1.000027	2856.660	FIRST	517
C-30 1921 (GIS 034)	406494.956	3298007.259	-0°00'19.0109"	1.000160064535	0.999999	3438.363	C	22
C-457	487893.520	3386865.310	+0°13'56.1299	1.000168659943	1.000037	2815.036	FIRST	518
C-463	454981.250	3384064.089	+0°13'25.6975	1.000168069520	1.000017	3232.976	FIRST	519
CAREY 1971 (GIS 052)	274538.164	3252985.412	-0°07'22.8968"	1.000162524298	0.999965	4202.992	C	40
CB01	404335.152	3299812.544	-0°00'01.7880"	1.000160000040	0.999998	3462.711	FIRST	213
CB02	404566.840	3302721.345	+0°00'25.9571"	1.000160068457	0.999998	3465.607	FIRST	214
CB03	404507.118	3305108.185	+0°00'48.7233"	1.000160029797	0.999999	3441.800	FIRST	215

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
CB04	414940.498	3305105.229	+0°00'48.7437"	1.000160029762	1.000005	3312.346	FIRST	216
CB05	401710.817	3305139.283	+0°00'49.0068"	1.000160030161	0.999998	3456.346	FIRST	217
CB06	393685.142	3302521.644	+0°00'24.0273"	1.000160007261	0.999995	3514.755	FIRST	218
CB07	396486.090	3305121.432	+0°00'48.8122"	1.000160029952	0.999997	3479.125	FIRST	219
CB08	404452.338	3310332.472	+0°01'38.5535"	1.000160121912	1.000000	3419.268	FIRST	220
CB09	401892.835	3315689.566	+0°02'29.8140"	1.000160281100	1.000000	3431.005	FIRST	221
CB10	388588.579	3326357.577	+0°04'11.0233"	1.000160793330	0.999998	3485.189	FIRST	222
CB11	398954.565	3331554.255	+0°05'00.8131"	1.000161136989	1.000004	3354.850	FIRST	223
CB12	388497.680	3321003.884	+0°03'20.0343"	1.000160503781	0.999995	3541.598	FIRST	224
CB13	393956.436	3326323.819	+0°04'10.8305"	1.000160791297	1.000000	3440.832	FIRST	225
CB14	383233.133	3329591.621	+0°03'45.5179"	1.000160840965	0.999994	3549.149	FIRST	226
CB15	404414.881	3307815.338	+0°01'14.5442"	1.000160069748	1.000001	3407.990	FIRST	227
CB16	407650.057	3307823.153	+0°01'14.6419"	1.000160069888	1.000002	3376.040	FIRST	228
CB17	391141.328	3310481.356	+0°01'39.8464"	1.000160125452	0.999994	3538.310	FIRST	229
CB18	385798.684	3321026.532	+0°03'20.1984"	1.000160504869	0.999994	3552.578	FIRST	230
CB19	409692.562	3307892.439	+0°01'15.3176"	1.000160071131	1.000003	3360.040	FIRST	231
CB20	399051.866	3281593.020	+0°02'55.4793"	1.000160386906	0.999989	3649.444	FIRST	230
CB21	404358.119	3284145.414	+0°02'31.2233"	1.000160287044	0.999997	3481.112	FIRST	231
CB22	404616.465	3278980.511	+0°03'20.4918"	1.000160504525	0.999995	3533.133	FIRST	232
CB23	393697.432	3284305.696	+0°02'29.5420"	1.000160281271	0.999976	3923.441	FIRST	233
CB25	404425.034	3276320.173	+0°03'45.8629"	1.000160640318	0.999993	3577.452	FIRST	234
CB26	393415.480	3286932.781	+0°02'04.5066"	1.000160194988	0.999965	4155.324	FIRST	235
CB27	393718.915	3286397.650	+0°02'09.6092"	1.000160211285	0.999966	4125.019	FIRST	236
CB28	386008.226	3273893.534	+0°04'08.5704"	1.000160778287	0.999976	3936.960	FIRST	237
CB29	372556.039	3284070.248	+0°02'31.4789"	1.000160289778	0.999980	3849.017	FIRST	240
CB30	378168.250	3336806.418	+0°05'50.1861"	1.000161547011	0.999995	3548.216	FIRST	241
CB31	372752.283	3336857.603	+0°05'50.4915"	1.000161551322	0.999993	3596.460	FIRST	245
CB32	362100.114	3315796.555	+0°02'30.0621"	1.000160284954	0.999981	3818.667	FIRST	246
CB33	351552.754	3320757.272	+0°03'16.9885"	1.000160492033	0.999967	4120.712	FIRST	247
CB34	377621.806	3347735.637	+0°07'34.1453"	1.000162662148	1.000001	3452.510	FIRST	248
CB35	367378.019	3310548.565	+0°01'40.2585"	1.000160127068	0.999986	3715.069	FIRST	249
CB36	367392.890	3315632.967	+0°02'28.5833"	1.000160279082	0.999983	3774.868	FIRST	220
CB37	367503.366	3305166.403	+0°00'49.1045"	1.000160030481	0.999985	3737.404	FIRST	421
CB38	367473.547	3289426.970	+0°01'40.4920"	1.000160127658	0.999980	3847.412	FIRST	461
CB39	367370.488	3278962.342	+0°03'19.9516"	1.000160505410	0.999978	3883.687	FIRST	462
CB40	359780.732	3278760.922	+0°03'21.7195"	1.000160515136	0.999976	3928.560	FIRST	463
CB41	359410.646	3278881.946	+0°03'20.5630"	1.000160509283	0.999976	3935.733	FIRST	464
CB42	367751.895	3273348.099	+0°04'13.3211"	1.000160811158	0.999976	3931.865	FIRST	465
CB43	367290.959	3273335.840	+0°04'13.4264"	1.000160811904	0.999976	3927.435	FIRST	466
CB44	378043.689	3289525.846	+0°01'39.6529"	1.000160125281	0.999987	3690.323	FIRST	467
CB45	372747.789	3276415.096	+0°03'44.2771"	1.000160635207	0.999974	3969.752	FIRST	468
CB46	367575.876	3269053.876	+0°05'03.6364"	1.000161165428	0.999968	4112.922	FIRST	469
CB47	372768.336	3289318.738	+0°01'41.5721"	1.000160130284	0.999981	3820.817	FIRST	470

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
CB48	359338.864	3289255.165	+0°01'42.0645"	1.000160131890	0.999973	3974.869	FIRST	471
CB49	356850.752	3289211.586	+0°01'42.4332"	1.000160132913	0.999970	4048.877	FIRST	472
CB50	361907.809	3294216.409	+0°00'54.9412"	1.000160038198	0.999975	3949.156	FIRST	473
CLINE 1971 (GIS 032)	456881.235	3294866.641	+0°00'49.2092"	1.000160030090	0.999968	4096.808	C	20
CLINE FALLS	466032.342	3308509.412	+0°01'02.4549"	1.000160048384	1.000024	2919.147	FIRST	520
COTTON 1	586485.926	3340308.110	+0°06'31.5708"	1.000161854928	1.000058	2241.194	FIRST	521
COTTON 2	586852.281	3335628.804	+0°05'45.6079"	1.000161449413	1.000048	2479.974	FIRST	522
CROOK	568931.133	3305816.535	+0°00'56.3587"	1.000160038860	1.000039	2598.770	FIRST	523
DES 016 (GIS 064)	407771.668	3209254.891	+0°14'25.8121"	1.000169403441	0.999870	6340.604	C	52
DESCHUTES RESET	403102.182	3307778.580	+0°01'14.1841"	1.000160069093	1.000000	3413.627	FIRST	232
DL20	407641.305	3307810.437	+0°01'14.5205"	1.000160069661	1.000002	3376.006	SECOND	233
DL80	415997.408	3307842.123	+0°01'14.8826"	1.000160070227	1.000005	3319.695	FIRST	234
DRW1	363440.325	3279081.307	+0°03'18.7462"	1.000160499711	0.999977	3898.891	FIRST	474
DRW2	362553.022	3278651.609	+0°03'22.8115"	1.000160520452	0.999977	3902.103	FIRST	475
DRW3	362195.275	3284406.276	+0°02'28.1366"	1.000160277683	0.999976	3931.128	FIRST	476
E-30 RESET 69 (GIS 030)	423728.458	3308342.782	+0°01'19.7222"	1.000160079479	1.000007	3277.461	C	18
E-735	463200.642	3315072.392	+0°02'24.5737"	1.000160259410	1.000020	3004.856	FIRST	524
E010	391967.919	3307772.979	+0°01'14.0520"	1.000160068995	0.999994	3550.007	FIRST	235
F-336	541089.465	3353129.795	+0°08'33.4253"	1.000163223127	1.000018	3117.402	FIRST	525
F-735	462708.872	3322505.151	+0°03'35.8582"	1.000160578344	1.000020	3005.144	FIRST	526
FIRST (GIS 063)	379614.989	3252067.976	+0°07'36.1006"	1.000162623600	0.999945	4621.690	C	51
G-111	480729.663	3329996.653	+0°04'48.2089"	1.000161027455	1.000023	2952.152	FIRST	527
G-455	491862.513	3350948.206	+0°08'10.0321"	1.0001622963962	1.000031	2838.082	FIRST	528
G-457	478099.191	3402895.478	+0°16'28.3605"	1.000172089658	1.000039	2842.366	FIRST	529
GIS 001	383258.592	3299857.385	+0°00'01.3575"	1.000160000023	0.999988	3658.408	FIRST	236
GIS 002	383285.149	3300868.879	+0°00'08.2708"	1.000160000082	0.999988	3670.198	SECOND	237
GIS 003	383310.133	3302500.852	+0°00'23.8055"	1.000160007142	0.999988	3670.675	FIRST	238
GIS 004	383272.942	3304044.305	+0°00'38.4975"	1.000160018678	0.999988	3681.837	SECOND	239
GIS 005	383396.685	3305237.786	+0°00'49.8587"	1.000160031329	0.999989	3651.730	FIRST	240
GIS 006	385958.243	3305110.024	+0°00'48.6545"	1.000160029819	0.999991	3609.493	FIRST	241
GIS 007	388576.145	3305120.233	+0°00'48.7639"	1.000160029938	0.999992	3582.690	SECOND	242
GIS 008	388510.186	3302176.219	+0°00'20.7257"	1.000160005408	0.999991	3608.163	SECOND	243
GIS 010	388517.034	3300504.784	+0°00'04.8074"	1.000160000291	0.999987	3683.570	SECOND	244
GIS 011	388520.899	3309888.503	+0°00'01.0819"	1.000160000014	0.999988	3675.116	FIRST	245
GIS 012	388520.300	3306104.551	+0°00'58.1380"	1.000160042555	0.999992	3588.795	FIRST	246
GIS 013	380745.835	3289403.651	+0°01'40.8415"	1.000160128221	0.999989	3659.924	C	1
GIS 014	444207.145	3250261.171	+0°07'56.2255"	1.000162825005	1.000010	3266.925	C	2
GIS 015	470884.920	3225835.138	+0°11'51.9034"	1.000166280845	1.000017	3196.949	C	3
GIS 016	423278.093	3268401.305	+0°05'01.9382"	1.000161140176	1.000001	3420.682	C	4
GIS 017	470780.459	3255494.190	+0°07'07.2061"	1.000162261799	1.000018	3087.536	C	5
GIS 018	471204.531	3287432.451	+0°02'00.6397"	1.000160180352	1.000018	3042.592	C	6
GIS 019	502526.415	3284687.599	+0°02'27.4291"	1.000160267730	1.000031	2767.704	C	7
GIS 021	492326.385	3329305.456	+0°04'41.8802"	1.000160980643	1.000027	2866.995	C	9

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
GIS 022	470783.954	3319382.727	+0°03'06.0531"	1.000160428992	1.000023	2949.178 C		10
GIS 023	444244.474	3313956.771	+0°02'13.6303"	1.000160222432	1.000014	3125.598 C		11
GIS 024	410092.972	3367284.097	+0°10'42.1132"	1.000165169675	1.000009	3337.990 C		12
GIS 025	356799.516	3315472.453	+0°02'26.9088"	1.000160273382	0.999975	3950.495 C		13
GIS 035	361251.730	3287219.222	-0°02'01.4034"	1.000160186537	0.999976	3922.179 C		23
GIS 036	371925.735	3277347.240	-0°03'35.3961"	1.000160585990	0.999978	3880.676 C		24
GIS 037	358316.956	3241725.287	-0°09'13.3880"	1.000163878044	0.999919	5186.207 C		25
GIS 038	265135.807	3262958.384	-0°05'48.6340"	1.000161566959	0.999960	4282.697 C		26
GIS 039	270344.989	3214522.674	-0°13'24.9027"	1.000168344115	0.999968	4253.684 C		27
GIS 040	364306.066	3343989.367	+0°06'57.9718"	1.000162209763	0.999994	3592.995 C		28
GIS 041	314576.830	3246255.737	-0°08'28.2356"	1.0001632988593	0.999962	4271.863 C		29
GIS 042	305545.367	31932253.820	-0°16'48.5669"	1.000173012920	0.999949	4765.000 C		30
GIS 043	378185.203	3334244.164	+0°05'25.8088"	1.0001613339119	0.999995	3550.388 C		31
GIS 044	385748.833	3316111.247	+0°02'33.3981"	1.000160296416	0.999992	3582.953 C		32
GIS 045	372555.531	3306056.871	+0°00'57.5959"	1.000160041893	0.999986	3720.213 C		33
GIS 048	256592.279	3228922.938	-0°11'08.4238"	1.000165769529	0.999966	4280.482 C		36
GIS 068	405714.619	3279230.663	-0°03'18.1265"	1.000160492587	0.999996	3517.456 C		56
GIS 069	292859.666	3233568.980	-0°10'26.9041"	1.000165039796	0.999966	4225.291 C		57
GIS 070	206445.540	3328363.009	+0°04'25.4565"	1.000160918752	0.999915	5224.113 C		58
GIS 072	253712.231	3357386.648	+0°08'59.5289"	1.000163761000	0.999912	5335.043 C		60
GIS 100	397361.461	3306449.831	+0°01'01.4783"	1.000160047505	0.999989	3465.352 FIRST		247
GOSNEY	374926.539	3323676.890	+0°03'45.1987"	1.000160640171	0.999999	3653.360 FIRST		422
H-478	481235.413	3334556.741	+0°05'32.0383	1.000161363587	1.000024	2944.111 FIRST		530
HAY	546902.957	3333788.744	+0°05'26.7034	1.000161303596	1.000027	2869.340 FIRST		531
J-366	574043.805	3324360.745	+0°03'56.1561	1.000160677598	1.000042	2546.390 FIRST		532
J-372 1943 (GIS 058)	318827.313	3378808.689	+0°12'25.5392"	1.000167092358	0.999968	4226.791 C		48
J-735	464166.262	3307567.347	+0°01'12.5924	1.000160065390	1.000024	2919.357 FIRST		533
JOHN	378070.467	3294627.312	-0°00'51.1168"	1.000160032963	0.999985	3732.836 FIRST		477
JUN AZ NO.2	532351.686	3308748.733	+0°01'24.4741	1.000160087396	1.000026	2866.025 FIRST		534
K-336	566212.350	3332273.399	+0°05'12.6280	1.000161189277	1.000040	2607.219 FIRST		535
K-752	484982.074	3350331.470	+0°08'03.7820	1.000160292651	1.000032	2802.375 FIRST		536
KO30	321793.522	3305081.178	+0°00'48.1308	1.000160079252	0.999985	3730.158 FIRST		423
KINGS GAP (USFS)	521740.569	3347576.189	+0°07'38.9083	1.000162564554	0.999982	3839.079 FIRST		537
KR20	363566.495	3310328.918	+0°01'38.1351"	1.000160121831	0.999984	3755.589 FIRST		424
KR40	362087.732	3314251.989	+0°02'15.3888"	1.000160231954	0.999980	3838.237 FIRST		425
L-367	519616.604	3366934.406	+0°10'45.4998	1.000165115717	1.000018	3154.800 FIRST		538
LO20	375177.203	3313059.283	+0°02'04.2142"	1.000160194753	0.999985	3744.105 FIRST		426
LARSON	370561.391	3313033.842	+0°02'03.9175"	1.000160193996	0.999983	3775.252 FIRST		427
LAVA BUTTE (GIS 055)	334627.399	3280840.272	-0°03'01.5335"	1.000160419215	0.999924	5019.479 C		43
LONE PINE SCHOOL PK	502472.413	3356142.191	+0°09'00.5367	1.000163599074	1.000029	2876.745 FIRST		539
M-419	468693.443	3308558.290	+0°01'22.1339	1.000160083636	1.000024	2908.291 FIRST		540
N-463	465488.571	3398968.994	+0°15'49.4976	1.000171184598	1.000018	3265.315 FIRST		541
N-752	486625.470	3369180.152	+0°11'05.0562	1.000165464873	1.000035	2792.703 FIRST		542

Mark Name	Northing	Easting	Convergence	Scale Factor	COMBINE FACTOR	Orthometric Height	Order	NUMBER
P-35 RESET87 (GIS 062)	362240.219	320116.841	-0°15'39.3752"	1.000171166016	0.999869	6399.068C		50
P-372 1943 (GIS 059)	317881.229	3415021.629	+0°18'08.0358"	1.000175108673	0.999972	4321.821C		47
P.B.S. TV TOWER	392919.770	3286839.700	-0°02'05.3876"	1.000160197776	1.000160	0.000SECOND		248
PAULINA PEAK (GIS 053)	251253.106	3307525.078	+0°01'10.7318"	1.000160064670	0.999782	7983.034C		41
PINE BUTTE (GIS 031)	386640.678	3300025.700	+0°00'00.2447"	1.000160000001	0.999966	4138.333B		19
PINE USGS (GIS 056)	299910.637	3393100.045	+0°14'39.1644"	1.000169898524	0.999867	8405.804C		44
PRINEVILLE (GIS 067)	474692.444	3409536.558	+0°17'31.8065"	1.000173700647	1.000025	3188.428B		55
O-336	551618.107	33468229.350	+0°07'27.1924	1.0001622440246	1.000025	2934.570FIRST		543
O-419	476471.006	3316897.457	+0°02'42.2854	1.000160326033	1.000029	2821.522FIRST		544
O-463	455190.063	3361289.695	+0°09'47.4349	1.000164289438	1.000021	3068.091FIRST		545
RO20	363240.400	3323539.544	+0°03'43.6423"	1.000160632770	0.999983	3786.414FIRST		428
RO30	362115.842	3318363.315	+0°02'54.4457"	1.000160385081	0.999979	3855.187FIRST		429
FED 13 (IDEA)	475790.774	3319447.793	+0°03'06.7670	1.000160431876	1.000025	2893.079FIRST		546
RICKARD	367341.631	3317235.517	+0°02'43.8139"	1.000160339232	0.999982	3798.321FIRST		430
ROD 1	599135.032	3339958.729	+0°06'28.2944	1.000161823089	1.000055	2300.499FIRST		547
ROD 2	606856.410	3349631.327	+0°08'02.6422	1.000162812512	1.000052	2392.930FIRST		548
ROUND	587191.372	3311618.861	+0°01'52.7764	1.000160154140	1.000007	3272.039FIRST		549
SISTERS (GIS 066)	476139.620	3228634.989	-0°11'25.3724"	1.000165815550	1.000017	3174.058B		54
SKY	595755.789	3340484.506	+0°08'33.2765	1.000161871985	1.000058	2242.615B		550
STEVENS	378026.989	3306786.185	+0°01'04.5648"	1.000160052589	0.999996	3703.485C		62
T 463 (GIS 047)	427162.528	3347502.397	+0°07'34.0723"	1.000162576700	1.000011	3242.228C		35
USCE	383408.641	33289815.778	-0°01'36.9442"	1.000160118440	0.999991	3598.425FIRST		338
V-456	499876.648	3327484.684	+0°04'24.5578	1.000160862568	1.000029	2828.435FIRST		551
W-22 1920 (GIS 057)	318943.220	3362238.215	+0°09'48.8041"	1.0001644232620	0.999980	4338.205C		45
WB23	377580.338	3294133.110	-0°00'55.8161"	1.000160039306	0.999985	3734.352FIRST		76
WB24	375388.247	3292544.297	-0°01'10.9168"	1.000160063478	0.999983	3776.446FIRST		77
WGCW	383289.539	3289212.371	-0°01'42.6869"	1.000160132891	0.999991	3617.178FIRST		339
WICKIUP (GIS 051)	249030.755	3193020.895	-0°16'45.3173"	1.000173070249	0.999968	4353.999B		39
WT20	378068.071	3300052.820	+0°00'00.5025"	1.000160000003	0.999985	3732.485FIRST		431
X-359 1942 (GIS 085)	447134.390	3224031.475	-0°12'07.5624"	1.000166590158	0.999987	3822.841C		53
Y 370 1942 (GIS 049)	256517.326	3248756.667	-0°08'01.9014"	1.000162998854	0.999965	4218.986C		37
Y-419	495830.629	3297052.583	-0°00'28.3598"	1.000160009920	1.000042	2534.452FIRST		552

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BY

NUMBER

NUMBER	Northing	Easting	Orthometric Height	Mark Name
1	380745.8354	3289403.6533	3659.9252	GIS 013
2	444207.1439	3250261.1674	3266.9227	GIS 014
3	470884.9210	3225835.1409	3196.9488	GIS 015
4	423278.0923	3268401.3027	3420.6837	GIS 016
5	470780.4575	3255494.1874	3087.5361	GIS 017
6	471204.5285	3287432.4449	3042.5919	GIS 018
7	502526.4146	3284687.5980	2767.7069	GIS 019
8	507864.6431	3314126.5174	2765.4308	14120188 (GIS 020)
9	492326.3837	3329305.4540	2866.9948	GIS 021
10	470783.9528	3319382.7229	2949.1783	GIS 022
11	444244.4736	3313956.7690	3125.5964	GIS 023
12	410092.9702	3367284.0923	3337.9924	GIS 024
13	356799.5163	3315472.4556	3950.4954	GIS 025
14	387712.3527	3367383.6863	3379.7976	17142600 (GIS 026)
15	460142.9905	3335307.3727	3049.9442	15131400 (GIS 027)
16	481286.6149	3340550.3426	2955.8071	14132500 (GIS 028)
17	438699.7658	3289383.1876	3182.6241	16120840 (GIS 029)
18	423728.4582	3308342.7789	3277.4606	E-30 RESET 69 (GIS 030)
19	386640.6780	3300025.6995	4138.3327	PILOT BUTTE (GIS 031)
20	456881.2353	3294866.6425	4096.8096	CLINE 1971 (GIS 032)
21	507512.8992	3296591.3706	2924.5030	BIG FALLS (GIS 033)
22	408494.9562	3298007.2601	3438.3629	C-30 1921 (GIS 034)
23	361251.7283	3287219.2200	3922.1785	GIS 035
24	371925.7339	3277347.2376	3880.6759	GIS 036
25	358316.9549	3241725.2820	5186.2073	GIS 037
26	265135.8088	3262958.3863	4282.6969	GIS 038
27	270344.9869	3214522.6707	4253.6844	GIS 039
28	364306.0661	3343989.3666	3592.9954	GIS 040
29	314576.8286	3246255.7315	4271.8633	GIS 041
30	305545.3650	3193253.8171	4765.0003	GIS 042
31	378185.2020	3334244.1617	3550.3896	GIS 043
32	385746.8309	3316111.2431	3582.9528	GIS 044
33	372555.5316	3306056.8736	3720.2133	GIS 045
34	398752.4073	3321022.9229	3429.8261	BEND AIRPORT (GIS 046)
35	427162.5259	3347502.3924	3242.2277	T 463 (GIS 047)
36	256592.2794	3228922.9368	4260.4823	GIS 048
37	256517.3279	3248756.6690	4218.9862	Y 370 1942 (GIS 049)
38	224792.2695	3230007.2117	4267.1850	BEAL RM-1 (GIS 050)
39	249030.7554	3193020.8947	4353.9993	WICKIUP (GIS 051)
40	274538.1673	3252985.4155	4202.9921	CAREY 1971 (GIS 052)
41	251253.1092	3307525.0848	7983.0342	PAULINA PEAK (GIS 053)
42	305308.0476	3263078.8370	4207.7756	BNRR STA 369 + 48.3 (GIS 054)
43	334627.3973	3280840.2691	5019.4784	LAVA BUTTE (GIS 055)
44	299915.6361	3393100.0432	6405.6018	PINE USGS (GIS 056)
45	318943.2193	3362238.2148	4338.2054	W-22 1920 (GIS 057)
46	318827.3110	3378806.6833	4226.7913	J-372 1943 (GIS 058)
47	317881.2295	3415021.6324	4321.8209	P-372 1943 (GIS 059)
48	297435.9172	3480331.8140	4634.9738	BROTHERS (GIS 060)
49	344328.1249	3366970.9824	3626.4436	STATE HWY PI (GIS 061)
50	362440.2187	3201116.8384	6399.0682	P-35 RESET87 (GIS 062)
51	379614.9904	3252067.9797	4621.6914	FIRST (GIS 063)
52	407771.6633	3209254.8786	6340.6037	DES 016 (GIS 064)
53	447134.3887	3224031.4699	3822.8412	X-359 1942 (GIS 065)
54	476139.6198	3228634.9885	3174.0584	SISTERS (GIS 066)
55	474692.4438	3409536.5582	3188.4276	PRINEVILLE (GIS 067)
56	405714.6185	3279230.6625	3517.4566	GIS 068
57	292869.6673	3233568.9816	4225.2906	GIS 069
58	208445.5398	3328363.0066	5224.1077	GIS 070
59	258479.6554	3415456.8838	4936.8410	6-DPB-1978 (GIS 071)
60	253712.2323	3357386.6492	5335.0427	GIS 072

NUMBER	Northing	Easting	Orthometric Height	Mark Name
61	388579.8811	3293912.4907	3632.4573	B004 ODOT 1990
62	378026.9818	3306786.1927	3703.4648	STEVENS
63	401815.5080	3295782.4815	3504.8094	B001
64	397669.6902	3295526.1026	3554.3446	B002
65	391450.7581	3295095.4784	3620.3488	B003
66	384227.3586	3293876.0667	3638.2754	B005
67	381209.8653	3294111.1538	3678.5459	B006
68	379458.4663	3294077.1219	3703.6639	B007
69	376413.6190	3292069.5598	3751.8180	B008
70	374386.2208	3290936.2048	3787.1463	B009
71	373514.6835	3290862.8608	3787.3182	B010
72	372331.2762	3291310.0944	3784.9941	B011
73	370481.6361	3290848.4588	3791.8544	B012
74	368477.5970	3289799.7025	3834.5894	B013
75	393843.5969	3295517.5237	3562.2071	B014
76	377580.3377	3294133.1102	3734.3524	WB23
77	375388.2473	3292544.2969	3776.4464	WB24
78	420250.8344	3305164.9486	3271.0030	16122600
79	420254.9206	3307810.5221	3271.4855	16122604
80	414950.3210	3299891.8658	3345.0343	16123400
81	414955.6677	3302539.6796	3321.9853	16123404
82	414970.2849	3305168.5151	3312.9831	16123500
83	417610.6841	3305166.4719	3295.3482	16123540
84	414990.2001	3310460.4038	3289.4120	16123600
85	414949.9432	3315733.1442	3332.6502	16133100
86	414939.3278	3331551.8204	3333.1680	16133400
87	414980.7637	3347410.7890	3308.6512	16143100
88	409704.7365	3310479.9746	3373.0029	17120100
89	412343.9288	3310478.5991	3332.8153	17120140
90	409694.1229	3305130.4072	3361.9908	17120200
91	409701.0991	3307777.2731	3357.9442	17120204
92	412334.3633	3305143.9501	3320.5865	17120240
93	409669.9100	3299893.2550	3376.2953	17120300
94	409686.8953	3302513.8125	3388.2286	17120304
95	412313.4382	3299895.8861	3376.0182	17120340
96	404382.6565	3297286.5488	3457.4622	17120904
97	404381.3037	3299891.2862	3458.3317	17121000
98	404399.5997	3302515.2571	3452.7941	17121004
99	404411.9605	3305131.7398	3430.0594	17121100
100	404415.5755	3307794.1679	3407.5569	17121104
101	407051.9033	3305131.3024	3391.4694	17121140
102	404425.2428	3310456.5521	3415.2455	17121200
103	404394.7400	3313088.9174	3399.5060	17121204
104	399113.7837	3310467.3103	3439.2996	17121300
105	399095.5379	3313087.2174	3455.7276	17121304
106	401775.2472	3310461.5631	3426.5291	17121340
107	399116.5869	3305150.6086	3458.7171	17121400
108	399115.7875	3307799.1277	3459.1201	17121404
109	401765.1563	3305141.2477	3453.3502	17121440
110	399092.2489	3299890.9589	3476.3436	17121500
111	399099.0964	3302521.7670	3471.1694	17121504
112	401736.9217	3299886.8171	3476.6438	17121540
113	399094.7162	3297262.3737	3500.9031	17121604
114	393791.5421	3299906.8541	3527.8155	17122200
115	393804.4295	3302524.1479	3511.4873	17122204
116	396442.0707	3299894.6953	3518.7325	17122240
117	393825.0319	3305142.9509	3519.8506	17122300
118	393828.0456	3307793.9029	3519.1680	17122304
119	396463.2853	3305142.0483	3478.3025	17122340
120	393831.8655	3310447.7900	3502.4649	17122400

NUMBER	Northing	Easting	Orthometric Height	Mark Name
121	393812.5740	3313095.7651	3525.6143	17122404
122	396473.3275	3310461.9089	3475.1295	17122440
123	388547.2541	3310433.4937	3585.1956	17122500
124	388534.3808	3313092.7853	3575.3555	17122504
125	391190.1199	3310440.9653	3536.7794	17122540
126	388546.5211	3305148.4538	3582.6124	17122600
127	388546.1659	3307781.4281	3588.7870	17122604
128	391181.8331	3305146.3638	3546.8875	17122640
129	388512.3950	3299887.9222	3674.7902	17122700
130	388531.5822	3302516.7828	3582.3425	17122704
131	391147.0453	3299896.0382	3556.3974	17122740
132	383286.3540	3299892.9531	3657.4567	17123400
133	383288.6680	3302541.3386	3666.0028	17123404
134	385930.4904	3299893.3286	3987.3618	17123440
135	383300.4631	3305191.2610	3653.2650	17123500
136	383285.7664	3307842.2532	3652.8348	17123504
137	385912.9000	3305147.2326	3611.1706	17123540
138	383272.4820	3310490.6654	3620.7837	17123600
139	383250.6111	3313111.8651	3628.9214	17123604
140	385910.1463	3310462.0558	3612.2165	17123640
141	409633.0549	3315729.5166	3372.3987	17130600
142	404364.2765	3315723.0821	3401.0528	17130700
143	404353.0015	3318328.7328	3394.0803	17130704
144	406997.4934	3315729.8952	3353.6909	17130740
145	404366.8254	3320999.6479	3376.0374	17130800
146	404375.7118	3323649.0562	3383.6731	17130804
147	404355.8121	3326304.3416	3361.5449	17130900
148	404377.5259	3331570.4904	3367.3602	17131000
149	399128.2041	3336826.7045	3311.3452	17131400
150	399093.6462	3331571.1544	3354.1408	17131500
151	399110.8732	3334199.0944	3320.3341	17131504
152	399073.2193	3326305.1257	3375.7830	17131600
153	399083.6127	3328938.2848	3375.5368	17131604
154	401714.5549	3326304.6648	3388.9999	17131640
155	399085.4110	3321001.4145	3426.0679	17131700
156	399079.3520	3323653.0657	3435.2405	17131704
157	401726.0403	3321000.9300	3405.2853	17131740
158	399082.8356	3315720.4463	3460.4142	17131800
159	399084.1344	3318361.5777	3453.4624	17131804
160	401722.0773	3315722.8306	3440.1217	17131840
161	393792.8069	3315743.7842	3491.9621	17131900
162	393795.0894	3318343.4955	3501.5202	17131904
163	396437.5687	3315732.1369	3496.7543	17131940
164	393797.3433	3321000.2147	3467.0911	17132000
165	393790.1019	3323646.8312	3428.0864	17132004
166	396443.9065	3321000.8613	3462.9518	17132040
167	393806.9092	3326292.6302	3441.9920	17132100
168	393784.3746	3328936.8487	3411.4510	17132104
169	396447.2782	3326298.8198	3391.0499	17132140
170	393803.1118	3331583.6094	3384.7585	17132200
171	393822.1015	3334228.4213	3357.7063	17132204
172	396448.4167	3331577.3549	3375.9264	17132240
173	393833.0815	3336874.3750	3368.1113	17132300
174	396483.9948	3336847.7285	3329.6835	17132340
175	388553.8873	3336878.9035	3425.9776	17132600
176	391190.1685	3336879.6490	3403.8548	17132640
177	388526.9185	3331577.5569	3468.1735	17132700
178	391158.3195	3331572.9440	3441.3337	17132740
179	388526.6898	3326286.1282	3482.5034	17132800
180	388532.1271	3328928.2090	3480.2563	17132804

NUMBER	Northing	Easting	Orthometric Height	Mark Name
181	391165.9807	3326285.2237	3437.3649	17132840
182	388515.9908	3320994.1031	3538.7194	17132900
183	388521.3912	3323639.9511	3498.7891	17132904
184	391154.0112	3320995.0284	3482.5345	17132940
185	388521.2588	3315751.7581	3562.0650	17133000
186	388518.6073	3318353.1611	3529.9467	17133004
187	391152.8371	3315746.2012	3530.8809	17133040
188	383228.7718	3315733.1764	3624.5702	17133100
189	383228.5197	3318365.8181	3589.6377	17133104
190	385874.9905	3315742.8086	3584.9073	17133140
191	383228.5367	3321008.4707	3569.4079	17133200
192	383241.3437	3323652.1099	3548.3475	17133204
193	385869.4850	3321001.4872	3552.3910	17133240
194	385872.9785	3321011.8967	3552.2011	17133240a
195	383254.3025	3326295.7225	3573.3554	17133300
196	383259.1108	3328930.9519	3552.8172	17133304
197	385884.9373	3326293.1093	3531.1797	17133340
198	383264.7045	3331565.6255	3564.4297	17133400
199	383267.5733	3334207.5105	3536.5717	17133404
200	385895.4581	3331571.6143	3514.4030	17133440
201	383269.9299	3336847.3007	3496.8571	17133500
202	385911.7011	3336877.4626	3462.1948	17133540
203	399131.7103	3347399.7473	3340.6220	17141800
204	383278.7065	3347400.4426	3443.9044	17143100
205	388533.6474	3315730.9026	3561.6952	AE60
206	388499.6052	3313462.7219	3583.8411	AE70
207	388537.1088	3310409.6986	3585.1578	AE80
208	399077.8028	3310448.5819	3438.1600	BA40
209	399106.2520	3313508.7346	3463.1814	BA50
210	399060.7857	3315738.0288	3460.2329	BA60
212	396500.0465	3310480.0871	3474.5074	BUTLER
213	404335.1520	3299812.5435	3462.7110	CB01
214	404566.8395	3302721.3454	3465.6071	CB02
215	404507.1180	3305108.1853	3441.8000	CB03
216	414940.4978	3305105.2292	3312.3456	CB04
217	401710.8165	3305139.2833	3456.3455	CB05
218	393685.1418	3302521.6439	3514.7546	CB06
219	396486.0899	3305121.4323	3479.1252	CB07
220	404452.3383	3310332.4718	3419.2677	CB08
221	401892.8345	3315689.5658	3431.0052	CB09
222	388588.5790	3326357.5765	3485.1885	CB10
223	398954.5648	3331554.2551	3354.8501	CB11
224	388497.6804	3321003.8840	3541.5984	CB12
225	393956.4355	3326323.8185	3440.8316	CB13
226	383233.1333	3323691.6213	3549.1492	CB14
227	404414.8814	3307815.3381	3407.9898	CB15
228	407650.0572	3307823.1529	3376.0396	CB16
229	391141.3280	3310481.3558	3538.3100	CB17
230	385798.6835	3321026.5324	3552.5782	CB18
231	409692.5624	3307892.4385	3360.0402	CB19
232	403102.1821	3307778.5598	3413.6269	DESCHUTES RESET
233	407641.3054	3307810.4373	3376.0056	DL20
234	415997.4056	3307842.1233	3319.6948	DL80
235	391967.9194	3307772.9791	3550.0074	E010
236	383258.5924	3299857.3849	3658.4084	GIS 001
237	383285.1492	3300868.8785	3670.1378	GIS 002
238	383310.1327	3302500.8515	3670.6752	GIS 003
239	383272.9415	3304044.3049	3661.8373	GIS 004
240	383396.6850	3305237.7858	3651.7295	GIS 005
241	385958.2429	3305110.0240	3609.4926	GIS 006

NUMBER	Northing	Easting	Orthometric Height	Mark Name
242	388576.1448	3305120.2333	3582.6903	GIS 007
243	388510.1862	3302176.2191	3608.1627	GIS 008
244	388517.0335	3300504.7844	3683.5696	GIS 010
245	388530.8992	3299888.5028	3675.1158	GIS 011
246	388520.2997	3306104.5514	3588.7945	GIS 012
247	397361.4612	3306449.8311	3465.3520	GIS 100
248	392919.7700	3286839.7000	0.0000	P.B.S. TV TOWER
249	414986.3658	3273674.8308	3475.0719	16113500
250	414982.7697	3278926.9171	3383.3785	16113600
251	414970.2263	3284239.1713	3374.5971	16123100
252	414958.3992	3286700.0292	3197.4386	16123104
253	414952.5659	3289337.7295	3314.7733	16123200
254	414952.5509	3291975.5996	3331.4954	16123204
255	414952.8626	3294614.4213	3372.6037	16123300
256	409694.2256	3278932.0737	3447.1198	17110100
257	412338.5985	3278929.5320	3355.8438	17110140
258	409725.7502	3273663.5275	3517.3144	17110200
259	409706.7915	3276299.0717	3493.3115	17110204
260	404476.7887	3273643.5528	3620.3073	17111100
261	404467.1324	3276308.1163	3579.7519	17111104
262	404435.2761	3278980.1762	3535.5439	17111200
263	407064.4739	3278956.3721	3555.1504	17111240
264	399173.8376	3278963.6019	3607.2917	17111300
265	399169.9043	3281597.7326	3638.6208	17111304
266	401811.3549	3278963.0665	3560.7373	17111340
267	399193.8571	3273643.3273	3635.7472	17111400
268	399183.3563	3276297.0311	3703.0344	17111404
269	401836.1033	3273646.1696	3656.2195	17111440
270	393918.3271	3273623.3530	3742.5243	17112300
271	393911.8143	3276287.6162	3720.0720	17112304
272	393905.2697	3278951.9423	3783.0884	17112400
273	393901.8882	3281588.2104	3676.1487	17112404
274	388636.0717	3278928.9616	3763.4365	17112500
275	388639.7687	3281569.3849	3747.8983	17112504
276	391259.3363	3278946.7400	3736.3307	17112540
277	388648.5358	3273615.7299	3863.5793	17112600
278	388640.0262	3276283.1136	3897.2490	17112604
279	391298.4928	3273616.8905	3710.5353	17112640
280	383410.5628	3273667.7645	3865.7648	17113500
281	383371.3316	3276247.6945	3850.1586	17113504
282	386007.3451	3273604.6360	3934.9792	17113540
283	383379.6489	3278907.5384	3793.1077	17113600
284	383367.2867	3281550.5089	3747.9059	17113604
285	386007.8124	3278918.2590	3748.6579	17113640
286	409669.4283	3294646.1615	3421.5602	17120400
287	409669.6722	3297258.9997	3411.9458	17120404
288	409660.2237	3289362.6680	3422.5998	17120500
289	409663.8060	3291998.8936	3421.0647	17120504
290	412318.7285	3289391.1946	3356.4490	17120540
291	409680.6195	3284230.9849	3346.1811	17120600
292	409678.2737	3286731.0024	3258.9477	17120604
293	412330.3598	3284236.3637	3340.2970	17120640
294	404428.1599	3284224.3395	3467.7724	17120700
295	404383.4844	3289350.9831	3508.2085	17120800
296	404380.5746	3292000.5176	3484.4416	17120804
297	407021.2256	3289356.4801	3470.5246	17120840
298	404381.1361	3294641.7680	3488.5968	17120900
299	407023.8135	3294643.9156	3449.2195	17120940
300	399097.8370	3294633.4811	3524.4469	17121600
301	401741.9130	3294642.8787	3503.9626	17121640

NUMBER	Northing	Easting	Orthometric Height	Mark Name
302	399138.8393	3289342.8052	3535.2010	17121700
303	401750.0638	3289349.7693	3515.8290	17121740
304	399170.2382	3284172.9500	3416.2083	17121800
305	401799.4805	3284198.8947	3500.8924	17121840
306	393904.4983	3284223.7532	3896.0132	17121900
307	393867.1215	3286686.9062	4119.8050	17121904
308	396540.9056	3284208.1287	3756.4973	17121940
309	393861.4849	3289323.7962	4002.3495	17122000
310	393854.2621	3291949.4544	3686.1204	17122004
311	396496.1809	3289335.9559	3794.6798	17122040
312	393811.3099	3294605.4218	3542.4477	17122100
313	393805.3851	3297262.2616	3564.2602	17122104
314	396456.2096	3294621.5781	3546.2664	17122140
315	388601.2290	3294564.8047	3607.3608	17122800
316	391239.3622	3294589.7152	3586.6218	17122840
317	388599.5958	3289343.0117	3691.1360	17122900
318	388602.9669	3291969.3504	3593.9098	17122904
319	391223.9777	3289329.9665	3981.6882	17122940
320	388625.6258	3284210.7924	3756.5832	17123000
321	388602.4854	3286699.0717	3776.5408	17123004
322	391265.1711	3284217.1120	4001.2295	17123040
323	383359.4853	3284198.1295	3820.3519	17123100
324	383337.8788	3286701.7285	3649.2292	17123104
325	385993.6095	3284207.8051	3674.1398	17123140
326	383319.2232	3291972.2967	3624.0529	17123204
327	383311.3098	3294611.6240	3654.0304	17123300
328	383292.4842	3297251.5223	3688.8907	17123304
329	385973.7180	3294589.6410	3622.9623	17123340
330	399051.8662	3281593.0195	3649.4436	CB20
331	404358.1189	3284145.4138	3481.1121	CB21
332	404616.4653	3278980.5107	3533.1329	CB22
333	393697.4318	3284305.6963	3923.4407	CB23
334	404425.0339	3276320.1730	3577.4524	CB25
335	393415.4804	3286932.7809	4155.3242	CB26
336	393718.9152	3286397.6497	4125.0192	CB27
337	386008.2258	3273893.5340	3936.9597	CB28
338	383408.6414	3289815.7782	3598.4250	USCE
339	383289.5389	3289212.3708	3617.1784	WCCW
340	378018.2310	3310449.4662	3693.2693	18120100
341	377982.1117	3313064.9182	3714.7121	18120104
342	380670.9730	3310470.2811	3660.8089	18120140
343	378069.1815	3305170.0870	0.0000	18120200
344	378043.5563	3307809.4646	3697.4442	18120204
345	380711.6186	3305186.5829	0.0000	18120240
346	378036.5457	3299895.9693	0.0000	18120300
347	378096.6431	3302516.4045	0.0000	18120304
348	380673.9578	3299883.2259	3703.4104	18120340
349	372757.0921	3299792.4522	3718.1609	18121000
350	372791.7845	3302476.1038	3729.8096	18121004
351	375393.2065	3299859.0477	3709.9335	18121040
352	372771.5318	3305105.8040	3715.4045	18121100
353	372753.2695	3307757.3648	3705.7402	18121104
354	375420.3618	3305137.8074	3705.5430	18121140
355	372735.3266	3310409.5828	3692.0098	18121200
356	372691.0834	3313023.5127	3760.6975	18121204
357	375379.7321	3310445.3990	3683.4707	18121240
358	367405.0971	3310420.9021	3711.4608	18121300
359	370093.7548	3310403.6909	3712.9242	18121340
360	367475.2913	3305049.2860	3739.7728	18121400
361	367450.3347	3307774.8740	3700.1336	18121404

NUMBER	Northing	Easting	Orthometric Height	Mark Name
362	367472.2620	3299799.1117	3753.3970	18121500
363	362185.8493	3299773.0365	3846.3360	18122200
364	362186.5257	3305031.9414	3894.1850	18122300
365	362166.8383	3310303.1669	3811.8212	18122400
366	356832.9019	3310241.4123	3951.4729	18122500
367	356889.8882	3305022.0336	4019.9052	18122600
368	359537.5952	3305025.4662	3917.5927	18122640
369	359549.6000	3299751.7213	3919.4567	18122740
370	377989.6541	3342106.7582	3495.5877	18130100
371	377985.7059	3336817.6854	3548.3966	18130200A
372	377990.2158	3336813.3191	3547.7464	18130200B
373	377990.8684	3331555.2453	3595.9818	18130300
374	377971.8387	3326303.3272	3619.3380	18130400
375	377962.7049	3321014.4811	3607.5117	18130500
376	377945.2786	3315702.3170	3713.5090	18130600
377	380587.4860	3315731.5045	3676.8737	18130640
378	372647.7262	3315637.1418	3743.7019	18130700
379	372671.8824	3318363.8458	3721.5082	18130704
380	375296.4679	3315669.6796	3711.1402	18130740
381	372663.5171	3321011.7570	3680.9417	18130800
382	372697.9753	3326299.1116	3694.8438	18130900
383	372700.7290	3331529.3515	3610.4662	18131000
384	372707.2063	3336843.8612	3597.6606	18131100
385	372701.4449	3342103.9362	3513.7321	18131200
386	367420.0529	3342093.2866	3578.3667	18131300
387	367419.2588	3336817.0178	3686.6408	18131400
388	367407.8388	3331500.7591	3718.8357	18131500
389	367412.0626	3326230.5293	3721.2913	18131600
390	367410.3110	3328865.8341	3699.7379	18131604
391	367380.1472	3320966.8407	3751.4488	18131700
392	367362.8648	3315602.7518	3777.7895	18131800
393	362086.7973	3315562.1648	3820.5291	18131900
394	362100.9466	3320889.9727	3806.5483	18132000
395	362097.3484	3326195.7922	3838.1011	18132100
396	364754.8195	3326212.9652	3748.8278	18132140
397	362122.2849	3331487.8673	3806.0782	18132200
398	362127.1417	3336790.1383	3756.3619	18132300
399	362133.8754	3342076.0447	3651.5090	18132400
400	356828.0779	3331474.3443	3917.6307	18132700
401	359483.7152	3331482.8106	3832.0652	18132740
402	356787.1466	3326160.3978	3973.9679	18132800
403	356807.6061	3328817.3214	3944.4817	18132804
404	359476.2427	3326190.2910	3914.8406	18132840
405	356816.6987	3320855.7633	3899.2913	18132900
406	356801.2012	3315527.4220	3949.3792	18133000
407	351513.0124	3315563.4506	4054.8647	18133100
408	351521.7921	3320864.8073	4118.9251	18133200
409	351543.5103	3326154.3403	4077.0510	18133300
410	377993.8531	3347382.9332	3451.8240	18140600
411	372713.1918	3347370.2141	3497.4034	18140700
412	351591.0704	3347308.6086	3839.3268	18143100
413	356793.9581	3327563.6610	3956.6254	B-23 USGS
414	378168.2495	3336806.4183	3548.2160	CB30
415	372752.2826	3336857.6031	3596.4600	CB31
416	362100.1136	3315796.5549	3818.6669	CB32
417	351552.7543	3320757.2722	4120.7119	CB33
418	377621.8062	3347735.6369	3452.5097	CB34
419	367378.0191	3310548.5647	3715.0691	CB35
420	367392.8903	3315632.9669	3774.8680	CB36
421	367503.3660	3305166.4033	3737.4044	CB37

NUMBER	Northing	Easting	Orthometric Height	Mark Name
422	374926.5287	3323676.8895	3653.3597	GOSNEY
423	373193.5219	3305061.1784	3730.1579	KO30
424	363566.4946	3310328.9182	3755.5887	KR20
425	362067.7324	3314251.9887	3838.2369	KR40
426	375177.2028	3313059.2833	3744.1049	LO20
427	370561.3906	3313033.8419	3775.2515	LARSON
428	363240.4004	3323539.5439	3786.4136	RO20
429	362115.8422	3318363.3150	3855.1872	RO30
430	367341.6305	3317235.5171	3798.3209	RICKARD
431	378068.0713	3300052.8195	3732.4847	WT20
432	378078.6908	3278849.3156	3764.7662	18110100
433	378024.8699	3276189.6092	3853.0714	18110204
434	372759.5445	3273483.3187	4003.0148	18111100
435	372774.0538	3276136.8456	3973.0092	18111104
436	372789.1655	3278790.0665	3870.1669	18111200
437	367444.9921	3278705.6558	3823.8709	18111300
438	367469.6850	3273434.0080	0.0000	18111400
439	367474.8866	3268089.6767	4072.8888	18111500
440	362191.9733	3268032.8462	4011.3393	18112200
441	362196.8229	3273395.3011	3947.7965	18112300
442	362194.4054	3276040.4659	3936.2486	18112304
443	364814.0617	3278717.4496	3892.7696	18112440
444	356894.7575	3278636.7638	4047.4838	18112500
445	359527.2556	3278662.4296	3933.4829	18112540
446	378048.5324	3289431.6646	3646.5708	18120500
447	380678.5204	3289324.9824	3659.2192	18120540
448	378072.1738	3284142.2092	3751.7036	18120600
449	372761.3533	3284084.8585	3776.0861	18120700
450	372771.8981	3289424.1589	3815.0219	18120800
451	372762.1060	3294617.1698	3760.3282	18120900
452	367427.6180	3294569.9991	3841.0103	18121600
453	367489.2169	3289381.0777	3848.2474	18121700
454	367455.1124	3284029.3556	3851.4690	18121800
455	362208.3099	3289287.6867	3908.6636	18122000
456	359538.9943	3294496.9474	3957.4730	18122840
457	356930.2634	3289209.1478	4033.5920	18122900
458	359570.9540	3289248.6531	3964.6920	18122940
459	356922.0504	3283929.0225	3969.5680	18123000
460	372556.0394	3284070.2475	3849.0172	CB29
461	367473.5472	3289426.9699	3847.4120	CB38
462	367370.4884	3278962.3417	3883.6865	CB39
463	359780.7316	3278760.9217	3928.5599	CB40
464	359410.6462	3278881.9464	3935.7334	CB41
465	367751.8947	3273348.0994	3931.8650	CB42
466	367290.9586	3273335.8400	3927.4349	CB43
467	378043.6891	3289525.8462	3690.3227	CB44
468	372747.7888	3276415.0962	3969.7517	CB45
469	367575.8762	3268053.8760	4112.9224	CB46
470	372768.3359	3289318.7377	3820.8166	CB47
471	359338.8636	3289253.1648	3974.8691	CB48
472	356650.7522	3289211.5664	4048.8773	CB49
473	361907.8091	3294216.4085	3949.1558	CB50
474	363440.3251	3279081.3070	3898.8905	DRW1
475	362553.0223	3278651.6085	3902.1034	DRW2
476	362195.2751	3284406.2755	3931.1282	DRW3
477	378070.4665	3294627.3122	3732.8355	JOHN
478	606939.4833	3339052.3016	2469.9532	10132500
479	606924.2772	3336408.1459	2443.8255	10132604
480	604274.9711	3339063.6106	2470.4063	10133640
481	606877.4949	3349631.6178	2392.9300	10142900

NUMBER	Northing	Easting	Orthometric Height	Mark Name
482	606895.9337	3344354.7722	2569.5235	10143000
483	604257.7530	3344352.4077	2359.2754	10143140
484	596486.3080	3340035.5010	2241.1942	11130100
485	596496.4375	3334763.8475	2463.5575	11130200
486	596484.9308	3337399.5745	2249.3070	11130204
487	591233.4290	3332149.6484	2487.2089	11131004
488	591213.1639	3337410.1902	2313.8741	11131104-W.C.
489	591208.3184	3340033.4715	2362.6837	11131200
490	585945.0835	3340022.6818	2454.5540	11131300
491	585945.6437	3334763.7635	2382.5262	11131400
492	580681.0176	3332136.0798	2506.1838	11132204
493	580654.1949	3337391.1068	2481.6963	11132304
494	580658.8729	3340031.5555	2457.7167	11132400
495	596436.3596	3350345.6165	2487.8644	11140500
496	596466.2018	3345344.0922	2388.9797	11140600
497	591197.0739	3345346.1821	2283.6056	11140700
498	580673.6294	3345354.7665	2480.2048	11141900
499	554342.8115	3324387.8432	2688.7162	12131600
500	554352.4575	3319127.6764	2641.1594	12131700
501	554353.9221	3314094.6614	2615.6559	12131800
502	514840.8574	3377056.2079	3378.1201	13153040
503	507039.3052	3387696.8977	3024.3952	13153300
504	507125.0270	3398281.7768	3020.0893	13153500
505	502413.4066	3403778.1250	2978.7109	14150100
506	491841.7048	3403816.5080	2926.3796	14151300
507	491876.6791	3393275.4618	2827.3885	14151500
508	486602.0483	3393269.1547	2821.5223	14152200
509	470810.2763	3372107.8976	3024.5601	15140100
510	444400.5556	3367022.0123	3297.3369	15143500
511	465521.2289	3382691.9230	3130.4511	15150800
512	449693.8351	3377549.7911	3327.4636	15153000
513	497658.3367	3308516.8653	2710.1050	2711 PP&L
514	494432.1927	3341656.4337	2905.2596	2906 ORE
515	502881.9310	3398574.7879	2968.1763	2971 RESET
516	504627.8293	3325724.4021	2759.2290	B-366
517	526428.8648	3318483.3975	2856.6601	C-15 PP&L
518	487893.5195	3386965.3103	2815.0361	C-457
519	454981.2495	3384064.0886	3232.9757	C-463
520	466032.3417	3306509.4115	2919.1470	CLINE FALLS
521	596485.9257	3340306.1096	2241.1942	COTTON 1
522	580652.2812	3335628.8042	2479.9738	COTTON 2
523	568931.1326	3305816.5347	2598.7702	CROOK
524	463200.6420	3315072.3916	3004.8556	E-735
525	541089.4652	3353129.7947	3117.4016	F-336
526	462708.8715	3322505.1506	3005.1444	F-735
527	480729.6631	3329996.6528	2952.1522	G-111
528	491862.5131	3350948.2064	2838.0821	G-455
529	478099.1913	3402895.4757	2842.3647	G-457
530	481235.4130	3334556.7412	2944.1109	H-478
531	546902.9569	3333788.7437	2869.3396	HAY
532	574043.8049	3324360.7451	2546.3896	J-366
533	464166.2624	3307567.3474	2919.3570	J-735
534	532351.6863	3308748.7334	2866.0248	JUIN AZ NO.2
535	566212.3504	3332273.3985	2607.2190	K-336
536	484982.0737	3350331.4704	2802.3753	K-752
537	521740.5687	3347576.1886	3839.0793	KINGS GAP (USFS)
538	519616.6037	3366934.4058	3154.7999	L-367
539	502472.4133	3356142.1908	2876.7454	LONE PINE SCHOOL PK
540	468693.4430	3308558.2901	2908.2907	M-419
541	465488.5706	3398968.6937	3265.3150	N-463

NUMBER	Northing	Easting	Orthometric Height	Mark Name
542	486625.4697	3369180.1519	2792.7034	N-752
543	551618.1074	3346229.3496	2934.5702	Q-336
544	476471.0055	3316897.4571	2821.5223	Q-419
545	455190.0634	3361289.6948	3068.0906	Q-463
546	475790.7738	3319447.7929	2893.0792	RED 13 (DEA)
547	599135.0321	3339958.7287	2300.4991	ROD 1
548	606856.4095	3349631.3272	2392.9300	ROD 2
549	587191.3724	3311618.8609	3272.0385	ROUND
550	595755.7894	3340484.5059	2242.6148	SKY
551	499876.6478	3327484.6835	2823.4350	V-456
552	495830.6286	3297052.5826	2534.4521	Y-419
553	507005.8407	3314130.3334	2736.3404	13133100
554	507014.3111	3329916.9356	2753.2749	131334007
555	502285.4357	3330024.7275	2771.8225	14130300
556	502284.8778	3332669.2373	2760.8591	14130304
557	507012.4165	3330085.5821	2758.6404	14130380
558	502298.1452	3324789.2905	2827.8781	14130400
559	507007.1898	3324784.6330	2743.3194	14130480
560	502330.1707	3319484.3583	2776.8108	14130500
561	507008.7420	3319481.9061	2732.7709	14130580
562	502537.1708	3314167.9502	2725.7169	14130600
563	502555.7705	3314223.5862	2725.5184	14130600A
564	499880.4877	3314158.3883	2722.8501	14130740
565	497091.8035	3319483.7063	2714.1288	14130800
566	497038.5747	3324764.2188	2761.2028	14130900
567	497033.2969	3330020.0360	2848.6238	14131000
568	497045.7843	3332637.3343	2776.9571	14131004
569	497070.2036	3337923.5769	2843.2697	14131104
570	491782.3418	3340539.3569	2941.2131	14131300
571	494423.9591	3340542.3009	2899.4970	14131340
572	491786.4828	3335250.9149	2819.4653	14131400
573	494422.8836	3335253.2010	2817.9892	14131440
574	491779.3058	3329996.0173	2799.3445	14131500
575	491789.0683	3324757.5787	2753.2561	14131600
576	491812.6283	3319436.9397	2736.9934	14131700
577	491923.4187	3314160.7694	2756.0039	14131800
578	494576.4373	3314161.5321	2751.4015	14131840
579	486616.6950	3314153.5326	2763.3565	14131900
580	486532.4912	3319494.6573	2782.9462	14132000
581	486485.7716	3324768.4737	3033.5693	14132100
582	486498.7330	3330031.8649	2897.6526	14132200
583	486512.0699	3335299.9577	2942.5531	14132300
584	486566.4321	3340552.7985	2938.1433	14132400
585	481247.5771	3335298.4559	2948.9231	14132600
586	481222.4562	3330028.5626	2936.6071	14132700
587	481210.4958	3324736.8679	2951.6141	14132800
588	481245.5553	3319474.3683	2832.0567	14132900
589	481318.7057	3314169.5341	2773.1459	14133000
590	475997.8631	3314163.1397	2829.2693	14133100
591	475984.4652	3319453.9520	2890.5249	14133200
592	475959.0534	3324730.6751	2946.4342	14133300
593	475982.3283	3330006.3951	2970.0632	14133400
594	475992.8472	3335284.1238	2982.6670	14133500
595	476007.1542	3340551.2802	3005.0569	14133600
596	491831.9562	3345883.0484	2910.3830	14141800
597	486560.6061	3345898.7706	2930.6342	14141900
598	481305.8209	3345928.0382	2946.8693	14143000
599	476037.1205	3345868.9228	2965.8212	14143100
600	470706.6183	3340501.7361	3005.9568	15130100
601	470712.6845	3335241.6976	3008.3056	15130200

NUMBER	Northing	Easting	Orthometric Height	Mark Name
602	470689.3298	3329956.1642	2979.1884	15130300
603	470667.4227	3324675.0112	2962.9632	15130400
604	470675.2081	3319403.4501	2950.4902	15130500
605	470699.4925	3314185.9644	2926.6104	15130600
606	465407.9040	3314150.7622	2959.7963	15130700
607	465362.1061	3319371.4339	2970.8872	15130800
608	465378.9427	3324646.3004	2986.1130	15130900
609	465411.7776	3329970.6552	2994.8010	15131000
610	465433.8347	3335270.2186	3041.8104	15131100
611	465420.6840	3340529.5063	3026.8125	15131200
612	460139.3204	3329988.1806	3014.5272	15131500
613	460120.4825	3324697.5210	2974.3049	15131600
614	460083.0753	3319348.1629	3010.8721	15131700
615	460118.5815	3314130.9385	3006.8271	15131800
616	454829.5115	3314116.3904	3057.9605	15131900
617	454803.5430	3319387.6722	3196.4635	15132000
618	454838.3733	3324716.9812	3034.8023	15132100
619	454834.1460	3330002.4750	3066.9143	15132200
620	454821.1205	3335329.5442	3086.0240	15132300?
621	454867.7805	3340566.2638	3069.7809	15132400
622	449579.0392	3340576.4800	3095.1183	15132500
623	449546.1408	3335299.6878	3102.4426	15132600
624	449562.3854	3329985.3160	3079.5131	15132700
625	449561.4878	3324699.0478	3078.9645	15132800
626	449522.0472	3319403.0891	3103.4191	15132900
627	449530.7164	3314080.5008	3075.5801	15133000
628	444259.9566	3314071.7677	3125.7557	15133100
629	444265.5749	3319355.9432	3125.9751	15133200
630	444278.4838	3324667.3319	3114.5100	15133300
631	444293.8451	3329963.7676	3110.6048	15133400
632	444287.4710	3335246.9621	3111.0115	15133500
633	444280.9638	3340542.5791	3117.1749	15133600
634	470747.8549	3345869.2779	2986.7585	15140600
635	454867.9508	3345852.3433	3084.2586	15141900
636	449576.6634	3345838.7825	3092.1701	15143000
637	444290.0706	3345834.8421	3101.6653	15143100
638	507017.9048	3329951.1221	2755.0024	ROCK AZ 1945
639	612125.8531	3323219.4110	2371.0403	10132100
640	612142.9106	3325840.2490	2380.6738	10132104
641	612159.9152	3328455.3125	2394.1349	10132200
642	612191.0779	3333755.8258	2421.5865	10132300
643	606838.4584	3328451.7991	2427.4516	10132700 WP
644	606826.9192	3325889.2751	2414.5502	10132804
645	609487.3510	3323219.7537	2391.3384	10132840
646	601597.4510	3331140.1088	2438.3839	10133404
647	601604.7028	3333752.8133	2438.8268	10133500
648	601613.1228	3336400.5102	2444.0340	10133504
649	601621.7365	3339052.1519	2460.1798	10133600
650	601630.7121	3341700.6432	2340.4287	10133604
651	606852.3239	3354926.5185	2354.2925	10142800
652	606864.9746	3352279.1160	2356.5140	10142904
653	606886.4720	3346987.6812	2434.1172	10143004
654	601619.4389	3344349.2051	2369.0977	10143100
655	601608.1788	3346999.3511	2390.0406	10143104
656	601596.8833	3349648.1392	2532.2498	10143200
657	601589.7861	3352281.6317	2475.9574	10143204
658	604237.9101	3349639.0189	2476.6401	10143240
659	596476.2429	3342680.3210	2281.0097	11130104
660	601624.9775	3340031.9114	2434.6639	11130180
661	599049.7367	3334793.2986	2444.2275	11130240

NUMBER	Northing	Easting	Orthometric Height	Mark Name
662	601607.9465	3334785.2459	2439.5418	11130280
663	596508.7360	3329505.8165	2458.2435	11130300
664	596518.9837	3332134.9915	2467.4517	11130304
665	601592.0460	3329506.1687	2434.1464	11130380
666	596488.7099	3324245.8535	2437.4780	11130400
667	596498.7111	3326875.9046	2447.0483	11130404
668	599074.0842	3324245.1822	2430.7156	11130440
669	601585.3008	3324244.5785	2426.0053	11130480
670	593850.3652	3334756.7777	2461.3599	11131140
671	593846.7902	3337398.9919	2297.3453	11131144
672	591200.8043	3342695.3921	2345.8334	11131204
673	593844.3369	3340037.2078	2635.9138	11131240
674	593840.5867	3342688.8944	2255.9690	11131244
675	585949.9738	3342682.9927	2456.3996	11131304
676	588576.6020	3340028.0141	2398.9803	11131340
677	585945.0780	3337391.4134	2372.4175	11131404
678	588582.6607	3334757.2808	2469.8030	11131440
679	588579.4683	3337396.0133	2356.7875	11131444
680	585960.9339	3329535.0023	2479.1453	11131500
681	585950.1479	3332151.1364	2486.1176	11131504
682	580711.0268	3324287.0848	2482.7732	11132100
683	580699.0403	3326910.9760	2493.3278	11132104
684	580687.2542	3329546.2328	2519.5957	11132200
686	583323.9778	3329540.5338	2493.7572	11132240
687	580653.9969	3334753.7236	2454.1339	11132300
688	583295.4212	3334763.5604	2444.9875	11132340
689	580666.0790	3342680.6195	2456.2533	11132404
690	583303.2190	3340033.6749	2488.1882	11132440
691	575401.5689	3334798.4832	2668.9037	11132600
692	578027.7607	3334776.1407	2518.1996	11132640
693	575404.9651	3329529.7539	2556.1455	11132700
694	575404.1424	3332164.4407	2613.3626	11132704
695	578047.2822	3329537.7974	2577.4154	11132740
696	578042.5810	3332150.3154	2554.1240	11132744
697	575422.0488	3324289.2683	2534.8567	11132800
698	575413.4899	3326909.4628	2549.3346	11132804
699	578066.5449	3324288.2214	2506.4553	11132840
700	599064.3221	3350326.8361	2573.5142	11140540
701	596451.9600	3347705.2554	2503.7639	11140604
702	599096.8928	3345339.3198	2352.7874	11140640
703	601615.2194	3345335.6784	2373.8720	11140680
704	593836.8134	3345344.8625	2336.0855	11140740
705	585942.2604	3345345.1943	2400.6311	11141800
706	588546.6851	3345345.2386	2277.9474	11141840
707	583307.7771	3345344.7279	2399.6793	11141940
708	578033.0940	3345362.5403	2491.9558	11143040
709	559615.2000	3314088.8651	2283.0434	12130700
710	559614.7233	3319113.9932	2613.3047	12130800
711	559596.0869	3324346.3998	2639.0346	12130900
712	593925.0705	3340281.9667	2292.4732	ROD 3
713	595540.0313	3337616.1824	2458.4379	SKYLER
714	580680.9930	3332135.9126	2506.2271	11132204-(REO 1995)

SORT

BY

TYPE & NAME

TYPE	Mark Name
HIGH PRECISION	BIG FALLS (GIS 033)
HIGH PRECISION	BROTHERS (GIS 060)
HIGH PRECISION	HAY
HIGH PRECISION	PILOT BUTTE (GIS 031)
HIGH PRECISION	PRINEVILLE (GIS 067)
HIGH PRECISION	SISTERS (GIS 066)
HIGH PRECISION	SKY
HIGH PRECISION	WICKIUP (GIS 051)
PRIMARY	10132604
PRIMARY	11131004
PRIMARY	11141900
PRIMARY	12131600
PRIMARY	12131700
PRIMARY	12131800
PRIMARY	13153040
PRIMARY	13153300
PRIMARY	13153500
PRIMARY	14120188 (GIS 020)
PRIMARY	14132500 (GIS 028)
PRIMARY	14150100
PRIMARY	14151300
PRIMARY	14151500
PRIMARY	14152200
PRIMARY	15131400 (GIS 027)
PRIMARY	15140100
PRIMARY	15143500
PRIMARY	15150800
PRIMARY	15153000
PRIMARY	16120840 (GIS 029)
PRIMARY	17142600 (GIS 026)
PRIMARY	2711 PP&L
PRIMARY	2906 ORE
PRIMARY	2971 RESET
PRIMARY	6-DPB-1978 (GIS 071)
PRIMARY	B-366
PRIMARY	B004 ODOT 1990
PRIMARY	BEAL RM-1 (GIS 050)
PRIMARY	BEND AIRPORT (GIS 046)
PRIMARY	BNRR STA 369 + 48.3 (GIS 054)
PRIMARY	C-15 PP&L
PRIMARY	C-30 1921 (GIS 034)
PRIMARY	C-457
PRIMARY	C-463
PRIMARY	CAREY 1971 (GIS 052)
PRIMARY	CLINE 1971 (GIS 032)
PRIMARY	CLINE FALLS
PRIMARY	CROOK
PRIMARY	DES 016 (GIS 064)
PRIMARY	E-30 RESET 69 (GIS 030)
PRIMARY	E-735
PRIMARY	F-336
PRIMARY	F-735
PRIMARY	FIRST (GIS 063)
PRIMARY	G-111
PRIMARY	G-455
PRIMARY	G-457
PRIMARY	GIS 013
PRIMARY	GIS 014
PRIMARY	GIS 015
PRIMARY	GIS 016

TYPE	Mark Name
PRIMARY	GIS 017
PRIMARY	GIS 018
PRIMARY	GIS 019
PRIMARY	GIS 021
PRIMARY	GIS 022
PRIMARY	GIS 023
PRIMARY	GIS 024
PRIMARY	GIS 025
PRIMARY	GIS 035
PRIMARY	GIS 036
PRIMARY	GIS 037
PRIMARY	GIS 038
PRIMARY	GIS 039
PRIMARY	GIS 040
PRIMARY	GIS 041
PRIMARY	GIS 042
PRIMARY	GIS 043
PRIMARY	GIS 044
PRIMARY	GIS 045
PRIMARY	GIS 048
PRIMARY	GIS 068
PRIMARY	GIS 069
PRIMARY	GIS 070
PRIMARY	GIS 072
PRIMARY	H-478
PRIMARY	J-366
PRIMARY	J-372 1943 (GIS 058)
PRIMARY	J-735
PRIMARY	JUIN AZ NO.2
PRIMARY	K-336
PRIMARY	K-752
PRIMARY	KINGS GAP (USFS)
PRIMARY	L-367
PRIMARY	LAVA BUTTE (GIS 055)
PRIMARY	LONE PINE SCHOOL PK
PRIMARY	M-419
PRIMARY	N-463
PRIMARY	N-752
PRIMARY	P-35 RESET87 (GIS 062)
PRIMARY	P-372 1943 (GIS 059)
PRIMARY	PAULINA PEAK (GIS 053)
PRIMARY	PINE USGS (GIS 056)
PRIMARY	Q-336
PRIMARY	Q-419
PRIMARY	Q-463
PRIMARY	ROUND
PRIMARY	STATE HWY PI (GIS 061)
PRIMARY	STEVENS
PRIMARY	T 463 (GIS 047)
PRIMARY	V-456
PRIMARY	W-22 1920 (GIS 057)
PRIMARY	X-359 1942 (GIS 065)
PRIMARY	Y 370 1942 (GIS 049)
PRIMARY	Y-419
SECONDARY	10132100
SECONDARY	10132104
SECONDARY	10132200
SECONDARY	10132300
SECONDARY	10132500
SECONDARY	10132700 WP

TYPE	Mark Name
SECONDARY	10132804
SECONDARY	10132840
SECONDARY	10133404
SECONDARY	10133500
SECONDARY	10133504
SECONDARY	10133600
SECONDARY	10133604
SECONDARY	10133640
SECONDARY	10142800
SECONDARY	10142900
SECONDARY	10142904
SECONDARY	10143000
SECONDARY	10143004
SECONDARY	10143100
SECONDARY	10143104
SECONDARY	10143140
SECONDARY	10143200
SECONDARY	10143204
SECONDARY	10143240
SECONDARY	11130100
SECONDARY	11130104
SECONDARY	11130180
SECONDARY	11130200
SECONDARY	11130204
SECONDARY	11130240
SECONDARY	11130280
SECONDARY	11130300
SECONDARY	11130304
SECONDARY	11130380
SECONDARY	11130400
SECONDARY	11130404
SECONDARY	11130440
SECONDARY	11130480
SECONDARY	11131104-W.C.
SECONDARY	11131140
SECONDARY	11131144
SECONDARY	11131200
SECONDARY	11131204
SECONDARY	11131240
SECONDARY	11131244
SECONDARY	11131300
SECONDARY	11131304
SECONDARY	11131340
SECONDARY	11131400
SECONDARY	11131404
SECONDARY	11131440
SECONDARY	11131444
SECONDARY	11131500
SECONDARY	11131504
SECONDARY	11132100
SECONDARY	11132104
SECONDARY	11132200
SECONDARY	11132204
SECONDARY	11132204-(REG 1995)
SECONDARY	11132240
SECONDARY	11132300
SECONDARY	11132304
SECONDARY	11132340
SECONDARY	11132400
SECONDARY	11132404

TYPE	Mark Name
SECONDARY	11132440
SECONDARY	11132600
SECONDARY	11132640
SECONDARY	11132700
SECONDARY	11132704
SECONDARY	11132740
SECONDARY	11132744
SECONDARY	11132800
SECONDARY	11132804
SECONDARY	11132840
SECONDARY	11140500
SECONDARY	11140540
SECONDARY	11140600
SECONDARY	11140604
SECONDARY	11140640
SECONDARY	11140680
SECONDARY	11140700
SECONDARY	11140740
SECONDARY	11141800
SECONDARY	11141840
SECONDARY	11141940
SECONDARY	11143040
SECONDARY	12130700
SECONDARY	12130800
SECONDARY	12130900
SECONDARY	13133100
SECONDARY	13133400?
SECONDARY	14130300
SECONDARY	14130304
SECONDARY	14130380
SECONDARY	14130400
SECONDARY	14130480
SECONDARY	14130500
SECONDARY	14130580
SECONDARY	14130600
SECONDARY	14130600A
SECONDARY	14130740
SECONDARY	14130800
SECONDARY	14130900
SECONDARY	14131000
SECONDARY	14131004
SECONDARY	14131104
SECONDARY	14131300
SECONDARY	14131340
SECONDARY	14131400
SECONDARY	14131440
SECONDARY	14131500
SECONDARY	14131600
SECONDARY	14131700
SECONDARY	14131800
SECONDARY	14131840
SECONDARY	14131900
SECONDARY	14132000
SECONDARY	14132100
SECONDARY	14132200
SECONDARY	14132300
SECONDARY	14132400
SECONDARY	14132600
SECONDARY	14132700
SECONDARY	14132800

TYPE	Mark Name
SECONDARY	14132900
SECONDARY	14133000
SECONDARY	14133100
SECONDARY	14133200
SECONDARY	14133300
SECONDARY	14133400
SECONDARY	14133500
SECONDARY	14133600
SECONDARY	14141800
SECONDARY	14141900
SECONDARY	14143000
SECONDARY	14143100
SECONDARY	15130100
SECONDARY	15130200
SECONDARY	15130300
SECONDARY	15130400
SECONDARY	15130500
SECONDARY	15130600
SECONDARY	15130700
SECONDARY	15130800
SECONDARY	15130900
SECONDARY	15131000
SECONDARY	15131100
SECONDARY	15131200
SECONDARY	15131500
SECONDARY	15131600
SECONDARY	15131700
SECONDARY	15131800
SECONDARY	15131900
SECONDARY	15132000
SECONDARY	15132100
SECONDARY	15132200
SECONDARY	15132300?
SECONDARY	15132400
SECONDARY	15132500
SECONDARY	15132600
SECONDARY	15132700
SECONDARY	15132800
SECONDARY	15132900
SECONDARY	15133000
SECONDARY	15133100
SECONDARY	15133200
SECONDARY	15133300
SECONDARY	15133400
SECONDARY	15133500
SECONDARY	15133600
SECONDARY	15140600
SECONDARY	15141900
SECONDARY	15143000
SECONDARY	15143100
SECONDARY	16113500
SECONDARY	16113600
SECONDARY	16122600
SECONDARY	16122604
SECONDARY	16123100
SECONDARY	16123104
SECONDARY	16123200
SECONDARY	16123204
SECONDARY	16123300
SECONDARY	16123400

TYPE	Mark Name
SECONDARY	16123404
SECONDARY	16123500
SECONDARY	16123540
SECONDARY	16123600
SECONDARY	16133100
SECONDARY	16133400
SECONDARY	16143100
SECONDARY	17110100
SECONDARY	17110140
SECONDARY	17110200
SECONDARY	17110204
SECONDARY	17111100
SECONDARY	17111104
SECONDARY	17111200
SECONDARY	17111240
SECONDARY	17111300
SECONDARY	17111304
SECONDARY	17111340
SECONDARY	17111400
SECONDARY	17111404
SECONDARY	17111440
SECONDARY	17112300
SECONDARY	17112304
SECONDARY	17112400
SECONDARY	17112404
SECONDARY	17112500
SECONDARY	17112504
SECONDARY	17112540
SECONDARY	17112600
SECONDARY	17112604
SECONDARY	17112640
SECONDARY	17113500
SECONDARY	17113504
SECONDARY	17113540
SECONDARY	17113600
SECONDARY	17113604
SECONDARY	17113640
SECONDARY	17120100
SECONDARY	17120140
SECONDARY	17120200
SECONDARY	17120204
SECONDARY	17120240
SECONDARY	17120300
SECONDARY	17120304
SECONDARY	17120340
SECONDARY	17120400
SECONDARY	17120404
SECONDARY	17120500
SECONDARY	17120504
SECONDARY	17120540
SECONDARY	17120600
SECONDARY	17120604
SECONDARY	17120640
SECONDARY	17120700
SECONDARY	17120800
SECONDARY	17120804
SECONDARY	17120840
SECONDARY	17120900
SECONDARY	17120904
SECONDARY	17120940

TYPE	Mark Name
SECONDARY	17121000
SECONDARY	17121004
SECONDARY	17121100
SECONDARY	17121104
SECONDARY	17121140
SECONDARY	17121200
SECONDARY	17121204
SECONDARY	17121300
SECONDARY	17121304
SECONDARY	17121340
SECONDARY	17121400
SECONDARY	17121404
SECONDARY	17121440
SECONDARY	17121500
SECONDARY	17121504
SECONDARY	17121540
SECONDARY	17121600
SECONDARY	17121604
SECONDARY	17121640
SECONDARY	17121700
SECONDARY	17121740
SECONDARY	17121800
SECONDARY	17121840
SECONDARY	17121900
SECONDARY	17121904
SECONDARY	17121940
SECONDARY	17122000
SECONDARY	17122004
SECONDARY	17122040
SECONDARY	17122100
SECONDARY	17122104
SECONDARY	17122140
SECONDARY	17122200
SECONDARY	17122204
SECONDARY	17122240
SECONDARY	17122240
SECONDARY	17122300
SECONDARY	17122304
SECONDARY	17122340
SECONDARY	17122400
SECONDARY	17122404
SECONDARY	17122440
SECONDARY	17122500
SECONDARY	17122504
SECONDARY	17122540
SECONDARY	17122600
SECONDARY	17122604
SECONDARY	17122640
SECONDARY	17122700
SECONDARY	17122704
SECONDARY	17122740
SECONDARY	17122800
SECONDARY	17122840
SECONDARY	17122900
SECONDARY	17122904
SECONDARY	17122940
SECONDARY	17123000
SECONDARY	17123004
SECONDARY	17123040
SECONDARY	17123100
SECONDARY	17123104

TYPE	Mark Name
SECONDARY	17123140
SECONDARY	17123204
SECONDARY	17123300
SECONDARY	17123304
SECONDARY	17123340
SECONDARY	17123400
SECONDARY	17123404
SECONDARY	17123440
SECONDARY	17123500
SECONDARY	17123504
SECONDARY	17123540
SECONDARY	17123600
SECONDARY	17123604
SECONDARY	17123640
SECONDARY	17130600
SECONDARY	17130700
SECONDARY	17130704
SECONDARY	17130740
SECONDARY	17130800
SECONDARY	17130804
SECONDARY	17130900
SECONDARY	17131000
SECONDARY	17131400
SECONDARY	17131500
SECONDARY	17131504
SECONDARY	17131600
SECONDARY	17131604
SECONDARY	17131640
SECONDARY	17131700
SECONDARY	17131704
SECONDARY	17131740
SECONDARY	17131800
SECONDARY	17131804
SECONDARY	17131840
SECONDARY	17131900
SECONDARY	17131904
SECONDARY	17131940
SECONDARY	17132000
SECONDARY	17132004
SECONDARY	17132040
SECONDARY	17132100
SECONDARY	17132104
SECONDARY	17132140
SECONDARY	17132200
SECONDARY	17132204
SECONDARY	17132240
SECONDARY	17132300
SECONDARY	17132340
SECONDARY	17132600
SECONDARY	17132640
SECONDARY	17132700
SECONDARY	17132740
SECONDARY	17132800
SECONDARY	17132804
SECONDARY	17132840
SECONDARY	17132900
SECONDARY	17132904
SECONDARY	17132940
SECONDARY	17133000
SECONDARY	17133004

TYPE	Mark Name
SECONDARY	17133040
SECONDARY	17133100
SECONDARY	17133104
SECONDARY	17133140
SECONDARY	17133200
SECONDARY	17133204
SECONDARY	17133240
SECONDARY	17133240a
SECONDARY	17133300
SECONDARY	17133304
SECONDARY	17133340
SECONDARY	17133400
SECONDARY	17133404
SECONDARY	17133440
SECONDARY	17133500
SECONDARY	17133540
SECONDARY	17141800
SECONDARY	17143100
SECONDARY	18110100
SECONDARY	18110204
SECONDARY	18111100
SECONDARY	18111104
SECONDARY	18111200
SECONDARY	18111300
SECONDARY	18111400
SECONDARY	18111500
SECONDARY	18112200
SECONDARY	18112300
SECONDARY	18112304
SECONDARY	18112440
SECONDARY	18112500
SECONDARY	18112540
SECONDARY	18120100
SECONDARY	18120104
SECONDARY	18120140
SECONDARY	18120200
SECONDARY	18120204
SECONDARY	18120240
SECONDARY	18120300
SECONDARY	18120304
SECONDARY	18120340
SECONDARY	18120500
SECONDARY	18120540
SECONDARY	18120600
SECONDARY	18120700
SECONDARY	18120800
SECONDARY	18120900
SECONDARY	18121000
SECONDARY	18121004
SECONDARY	18121040
SECONDARY	18121100
SECONDARY	18121104
SECONDARY	18121140
SECONDARY	18121200
SECONDARY	18121204
SECONDARY	18121240
SECONDARY	18121300
SECONDARY	18121340
SECONDARY	18121400
SECONDARY	18121404

TYPE	Mark Name
SECONDARY	18121500
SECONDARY	18121600
SECONDARY	18121700
SECONDARY	18121800
SECONDARY	18122000
SECONDARY	18122200
SECONDARY	18122300
SECONDARY	18122400
SECONDARY	18122500
SECONDARY	18122600
SECONDARY	18122640
SECONDARY	18122740
SECONDARY	18122840
SECONDARY	18122900
SECONDARY	18122940
SECONDARY	18123000
SECONDARY	18130100
SECONDARY	18130200A
SECONDARY	18130200B
SECONDARY	18130300
SECONDARY	18130400
SECONDARY	18130500
SECONDARY	18130600
SECONDARY	18130640
SECONDARY	18130700
SECONDARY	18130704
SECONDARY	18130740
SECONDARY	18130800
SECONDARY	18130900
SECONDARY	18131000
SECONDARY	18131100
SECONDARY	18131200
SECONDARY	18131300
SECONDARY	18131400
SECONDARY	18131500
SECONDARY	18131600
SECONDARY	18131604
SECONDARY	18131700
SECONDARY	18131800
SECONDARY	18131900
SECONDARY	18132000
SECONDARY	18132100
SECONDARY	18132140
SECONDARY	18132200
SECONDARY	18132300
SECONDARY	18132400
SECONDARY	18132700
SECONDARY	18132740
SECONDARY	18132800
SECONDARY	18132804
SECONDARY	18132840
SECONDARY	18132900
SECONDARY	18133000
SECONDARY	18133100
SECONDARY	18133200
SECONDARY	18133300
SECONDARY	18140600
SECONDARY	18140700
SECONDARY	18143100
SECONDARY	AE60

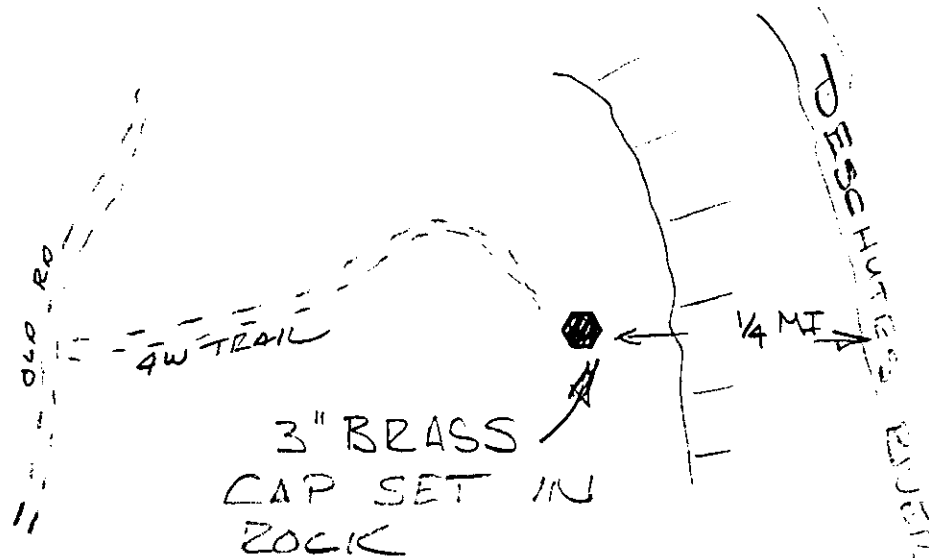
TYPE	Mark Name
SECONDARY	AE70
SECONDARY	AE80
SECONDARY	B-23 USGS
SECONDARY	B001
SECONDARY	B002
SECONDARY	B003
SECONDARY	B005
SECONDARY	B006
SECONDARY	B007
SECONDARY	B008
SECONDARY	B009
SECONDARY	B010
SECONDARY	B011
SECONDARY	B012
SECONDARY	B013
SECONDARY	B014
SECONDARY	BA40
SECONDARY	BA50
SECONDARY	BA60
SECONDARY	BUTLER
SECONDARY	CB01
SECONDARY	CB02
SECONDARY	CB03
SECONDARY	CB04
SECONDARY	CB05
SECONDARY	CB06
SECONDARY	CB07
SECONDARY	CB08
SECONDARY	CB09
SECONDARY	CB10
SECONDARY	CB11
SECONDARY	CB12
SECONDARY	CB13
SECONDARY	CB14
SECONDARY	CB15
SECONDARY	CB16
SECONDARY	CB17
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SECONDARY	CB20
SECONDARY	CB21
SECONDARY	CB22
SECONDARY	CB23
SECONDARY	CB25
SECONDARY	CB26
SECONDARY	CB27
SECONDARY	CB28
SECONDARY	CB29
SECONDARY	CB30
SECONDARY	CB31
SECONDARY	CB32
SECONDARY	CB33
SECONDARY	CB34
SECONDARY	CB35
SECONDARY	CB36
SECONDARY	CB37
SECONDARY	CB38
SECONDARY	CB39
SECONDARY	CB40
SECONDARY	CB41

TYPE	Mark Name
SECONDARY	CB42
SECONDARY	CB43
SECONDARY	CB44
SECONDARY	CB45
SECONDARY	CB46
SECONDARY	CB47
SECONDARY	CB48
SECONDARY	CB49
SECONDARY	CB50
SECONDARY	COTTON 1
SECONDARY	COTTON 2
SECONDARY	DESCHUTES RESET
SECONDARY	DL20
SECONDARY	DL80
SECONDARY	DRW1
SECONDARY	DRW2
SECONDARY	DRW3
SECONDARY	E010
SECONDARY	GIS 001
SECONDARY	GIS 002
SECONDARY	GIS 003
SECONDARY	GIS 004
SECONDARY	GIS 005
SECONDARY	GIS 006
SECONDARY	GIS 007
SECONDARY	GIS 008
SECONDARY	GIS 010
SECONDARY	GIS 011
SECONDARY	GIS 012
SECONDARY	GIS 100
SECONDARY	GOSNEY
SECONDARY	JOHN
SECONDARY	K030
SECONDARY	KR20
SECONDARY	KR40
SECONDARY	L020
SECONDARY	LARSON
SECONDARY	P.B.S. TV TOWER
SECONDARY	R020
SECONDARY	R030
SECONDARY	RED 13 (DEA)
SECONDARY	RICKARD
SECONDARY	ROCK AZ 1945
SECONDARY	ROD 1
SECONDARY	ROD 2
SECONDARY	ROD 3
SECONDARY	SKYLER
SECONDARY	USCE
SECONDARY	WB23
SECONDARY	WB24
SECONDARY	WCCW
SECONDARY	WT20

CONTROL MARK DATA

NAME OF MARK: BIG FALLS 1945 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1945 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 14 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 3

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK: BIG FALLS 1945</u>	HORIZONTAL ORDER: <u>A</u>	
Latitude:	44°23'31.365800"	ONE SIGMA ERROR
Longitude:	121°17'46.935270"	
Northing:	507512.8992	FIXED
Easting:	3296591.3706	FIXED
Convergence:	- 0°00'32.8342"	
Scale Factor:	1.000160013267	
Ellipsoid Height:	2858.4843	FIXED
Orthometric Height:	2924.5034	0.072
Geoid Height:	-66.0191	

BIG FALLS
PID: QD1711

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: DESCHUTES

LATITUDE:	44° 23' 31.36580" N
LONGITUDE:	121° 17' 46.93527" W

ORTHOMETRIC HEIGHT: {	891.5	METERS
	2925.	FEET

GEOID HEIGHT:	-20.023	METERS
ELLIPSOIDAL HEIGHT:	871.266	METERS
X:	653240.611	METERS
Y:	1937239.273	METERS
Z:	-6022291.207	METERS

HORIZONTAL NETWORK ORDER: A
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY GPS OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.58220" +04.14527" (Based on Adjusted Positions)

GRID	ZONE	PLANE COORDINATES				*GRID AZIMUTH TO	
		NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE DEG MIN SEC	BIG FALLS AZ MK 2 DEG MIN SEC	BIG FALLS AZ MK 2 DEG MIN SEC
SPC	OR S	303,070.5	1,436,541.3	1.00012336	- 0 32 41.4	246 03 00.8	
SPC	OR N	80,919.5	2,436,550.1	0.99998573	- 0 33 53.2	246 04 12.6	
UTM	10	4,916,829.4	635,684.8	0.99982641	+ 1 11 31.1	244 18 48.3	

(*ARC-TO-CHORD CORRECTION NOT APPLIED)

STATION MARKS AND REFERENCE OBJECTS

PID	REFERENCE OBJECT	DISTANCE	GEODETTIC AZIMUTH
QD1884	BIG FALLS RM 1	3.523 METERS	117 35
QD1724	TERREBONNE DICALITE CARBON TK	APPROX. 4.1 KM	178 24 59.1
	BIG FALLS AZ MK		187 35 38.1
	BIG FALLS AZ MK 2		245 30 19.4
QD1885	BIG FALLS RM 2	6.499 METERS	257 07
QD1714	BIG FALLS RM A	26.405 METERS	288 30

(Continued on Next Page)

BIG FALLS

PID: QD1711

STATION MARK IS A HORIZONTAL CONTROL DISK
WITH SETTING DRILL HOLE IN ROCK OUTCROP
THE MARK IS STAMPED ... BIG FALLS 1945

STATION MARK HISTORY

<u>YEAR MONUMENTED OR RECOVERED</u>	<u>CONDITION OF MARK</u>	<u>RECOVERED OR DESCRIBED BY</u>
1945	STATION MONUMENTED	COAST AND GEODETIC SURVEY
1971		NATIONAL GEODETIC SURVEY (LDF)
1974		NATIONAL GEODETIC SURVEY (JDS)
1976		NATIONAL GEODETIC SURVEY (CLN)
1989	GOOD	LOCAL SURVEYOR (INDIVIDUAL OR FIRM)

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1945

THE STATION IS LOCATED ON THE SUMMIT OF A BARE HILL ABOUT 2 MILES NORTH OF THE BIG FALLS AND 2.5 MILES NORTH OF THE DICOLITE MINES AT LOWER FALLS. IT IS SET IN A ROCK OUTCROPPING WITH AN EXPOSED SURFACE OF ABOUT 6 BY 7 FEET AND IS FLUSH WITH THE GROUND SURFACE. IT IS STAMPED BIG FALLS 1945.

REFERENCE MARK NO. 1 IS SET IN A LARGE BOULDER THAT PROJECTS ABOUT 2.5 FEET AND IS ABOUT 1 FOOT ABOVE STATION ELEVATION. IT IS STAMPED BIG FALLS NO 1 1945.

REFERENCE MARK NO. 2 IS SET IN A LARGE BOULDER THAT PROJECTS ABOUT 3 FEET AND IS ABOUT 2.5 FEET ABOVE STATION ELEVATION. IT IS STAMPED BIG FALLS NO 2 1945.

AZIMUTH MARK IS 23 FEET EAST OF AN INTERSECTION OF TWO TRACK ROADS AND 3.5 FEET EAST OF A 4 BY 4 INCH WHITE WITNESS POST. IT IS A STANDARD DISK BRAZED TO THE TOP OF A 2 INCH CAST IRON SOIL PIPE THAT PROJECTS 8 INCHES. IT IS STAMPED BIG FALLS 1945.

TO REACH THE STATION FROM THE POST OFFICE IN TERREBONE, GO NORTH ON U.S. HIGHWAY NO. 97 FOR 0.6 MILE TO A PAVED ROAD LEFT, WEST, GO WEST ON PAVED ROAD FOR 6.3 MILES TO THE SOUTH END OF A BRIDGE ACROSS THE DESCHUTES RIVER. TURN RIGHT AFTER CROSSING BRIDGE AND FOLLOW THE MAIN TRAVELED ROAD DOWN THE WEST SIDE OF THE RIVER FOR 1.6 MILES TO TOP OF A GRADE AND A WIRE GATE ON THE RIGHT, TURN RIGHT THROUGH WIRE GATE, BY AN OLD BUILDING WITH A FALSE FRONT, AND GO 0.15 MILE, PASS THROUGH GATE AT HAYSTACK AND TURN LEFT, NORTH, AND GO 1.35 MILES TO A FORK, * SEE BELOW, TAKE LEFT FORK AND GO 0.5 MILE TO A FENCE CORNER AND A SALT LICK. TURN LEFT THROUGH GATE AND CONTINUE, NORTH, CROSSCOUNTRY FOR 0.35 MILE TO FOOT OF HILL AND THE END OF TRUCK TRAVEL, PACK NORTHERLY UP HILL TO THE SUMMIT AND THE STATION AS DESCRIBED.

*THE AZIMUTH MARK IS SET AT THIS JUNCTION AS DESCRIBED IN DESCRIPTION.

(Continued on Next Page)

BIG FALLS

PID: QD1711

STATION RECOVERY (1971)

RECOVERED BY NATIONAL GEODETIC SURVEY 1971 (LDF)
STATION MARK, REFERENCE MARKS 1 AND 2 WERE RECOVERED AND FOUND IN GOOD CONDITION. THE AZIMUTH MARK WAS SEARCHED FOR BUT WAS NOT FOUND. A NEW AZIMUTH MARK WAS ESTABLISHED AT THIS TIME. A LONGER DISTANCE WAS NOTED TO BOTH REFERENCE MARKS AND WAS CHECKED IN THE FIELD.

STATION IS LOCATED ABOUT 14-1/2 MILES NORTHEAST OF SISTERS, 10 MILES NORTHWEST OF REDMOND AND 6-1/2 MILES NORTHWEST OF TERREBONNE AND IS ON PROPERTY OF MR. DONALD WILLIAMS WHO LIVED IN THE FARM HOUSE MENTIONED IN THE TO REACH.

TO REACH FROM THE POST OFFICE IN TERREBONNE, GO NORTH ON U.S. HIGHWAY 97 FOR 0.5 MILE TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO WEST ON LOWER BRIDGE WAY FOR 6.3 MILES TO A BRIDGE OVER THE DESCHUTES RIVER. CONTINUE WEST ON THE PAVED ROAD FOR 4.6 MILES TO WHERE THE PAVED ROAD TURNS SHARP TO THE LEFT. KEEP RIGHT AND CONTINUE NORTH ON A GRAVEL ROAD FOR 0.4 MILE TO A SIDE ROAD RIGHT WHICH LEADS TO A FARM HOUSE. TURN RIGHT AND GO EAST ON THE ROAD FOR 0.2 MILE TO A WIRE GATE JUST EAST OF THE FARM HOUSE. (MR. DONALD WILLIAMS WHO OWNS THE PROPERTY WHERE THE STATION IS LOCATED, LIVES IN THE FARM HOUSE.) PASS THROUGH THE GATE AND GO EAST ON TRACK ROAD THROUGH FIELD FOR 0.5 MILE TO A FORK. KEEP THE RIGHT FORK AND CONTINUE EAST ON A TRACK ROAD FOR 0.7 MILE TO SOME OLD BUILDINGS AND A TRACK ROAD RIGHT. TURN RIGHT AND GO SOUTH ON A TRACK ROAD FOR 0.1 MILE TO A WIRE GATE. PASS THROUGH THE GATE AND GO ABOUT 100 FEET TO A TRACK ROAD ON THE LEFT. BEAR LEFT AND FOLLOW TRACK ROAD, UPHILL, FOR 0.3 MILE TO THE TOP OF A RIDGE. CONTINUE EAST ON A TRACK ROAD FOR 0.5 MILE TO A SADDLE. (TO REACH THE AZIMUTH MARK, BEAR RIGHT AND GO SOUTH, ACROSS COUNTRY FOR 0.1 MILE TO THE TOP OF A RIDGE AND THE MARK.) CONTINUE EAST ON THE TRACK ROAD FOR 0.5 MILE TO WHERE THE TRACK ROAD BEARS TO THE RIGHT. TURN RIGHT AND FOLLOW THE TRACK ROAD SOUTH, UPHILL, FOR 0.05 MILE TO THE TOP OF A RIDGE AND THE STATION.

STATION MARK IS A STANDARD DISK, STAMPED BIG FALLS 1945, CEMENTED IN A DRILL HOLE IN AN OUTCROP WHICH IS FLUSH WITH THE GROUND SURFACE. IT IS 120 FEET SOUTH OF A LONE TREE AND ON THE HIGHEST PART OF THE HILL.

REFERENCE MARK 1 IS A STANDARD DISK, STAMPED BIG FALLS NO 1 1945, CEMENTED IN A DRILL HOLE IN THE TOP OF A BOULDER WHICH PROJECTS ABOUT 18 INCHES ABOVE THE GROUND SURFACE. IT IS 122 FEET SOUTH OF THE TREE AND ABOUT 1 FOOT HIGHER THAN THE STATION.

REFERENCE MARK 2 IS A STANDARD DISK, STAMPED BIG FALLS NO 2 1945, CEMENTED IN A DRILL HOLE IN A BOULDER WHICH PROJECTS ABOUT 2 FEET. IT IS 133 FEET SOUTHWEST OF THE LONE TREE AND ABOUT 2 FEET HIGHER THAN THE STATION.

(Continued on Next Page)

BIG FALLS

PID: QD1711

RM A IS A STANDARD DISK, STAMPED BIG FALLS 1945 RM A 1971, CEMENTED IN A DRILL HOLE IN AN OUTCROP WHICH PROJECTS ABOUT 2 INCHES ABOVE THE GROUND SURFACE. IT IS ON THE HIGHEST PART OF THE HILL AND ABOUT 149 FEET SOUTHWEST OF THE TREE AND ABOUT 2 FEET LOWER THAN THE STATION.

AZIMUTH MARK IS A STANDARD DISK, STAMPED BIG FALLS 1945 1971, CEMENTED IN A DRILL HOLE IN AN OUTCROP WHICH PROJECTS ABOUT 6 INCHES ABOVE THE GROUND SURFACE ON THE NORTH AND IS FLUSH ON THE SOUTH. IT IS ON THE EAST END OF THE RIDGE AND 16.6 FEET NORTH OF A METAL WITNESS POST.

THE DISTANCE BETWEEN REFERENCE MARK 1 AND 2 IS 31.05 FEET OR 9.465 M.

THE STATION IS IN THE NORTHEAST 1/4 OF SECTION 4, T 14 S, R 12 E.

HEIGHT OF LIGHT ABOVE STATION MARK 33 FEET.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
6-1/2 MILES NORTHWEST OF TERREBONNE.

STATION RECOVERY (1974)

RECOVERED BY NATIONAL GEODETIC SURVEY 1974 (JDS)
THE STATION MARK, REFERENCE MARKS 1, 2, BIG FALLS 1945 RM A 1971 AND THE AZIMUTH MARK WERE RECOVERED IN GOOD CONDITION AS DESCRIBED IN 1971 BY L. D. FAIR. THE TO REACH IS ADEQUATE AND THE PROPERTY OWNER IS THE SAME, MR. DONALD WILLIAMS WHO LIVES ENROUTE TO THE STATION.

THE DIRECTIONS TO ALL MARKS CHECKED THE 1971 DATA WITH THE EXCEPTION OF REFERENCE MARK 1 WHICH WAS LOCATED TOO CLOSE TO STATION TO FOCUS ON CLEARLY WITH THE INSTRUMENT. THE DISTANCE TO REFERENCE MARK 1 AND REFERENCE MARK A CHECKED THE 1971 DATA. THE DISTANCE TO REFERENCE MARK 2 WAS SHORTER BY 0.05 FOOT OR 0.014 METERS ALTHOUGH THIS DISTANCE CHECKS THE 1945 DATA.

THIS STATION WAS USED AS GEOCEIVER STATION 51066, FOR SATELLITE OBSERVATION.

HEIGHT OF LIGHT ABOVE STATION MARK 4.27 FEET.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
6.5 MILES NORTHWEST OF TERREBONNE.

STATION RECOVERY (1976)

RECOVERED BY NATIONAL GEODETIC SURVEY 1976 (CLN)
THE STATION MARK, BOTH REFERENCE MARKS, AND THE AZIMUTH MARK ESTABLISHED IN 1971 WERE RECOVERED IN GOOD CONDITION. THE RECOVERY NOTE SUBMITTED BY L.D.F. IS CORRECT, AND ADEQUATE.

(Continued on Next Page)

DEPARTMENT OF COMMERCE
NOAA - NOS - C&GS
NATIONAL GEODETIC SURVEY

PUBLICATION DATE: JUNE 17, 1991
USGS QUAD SHEET: STEELHEAD FALLS

BIG FALLS

PID: QD1711

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
6-1/2 MILES NORTHWEST OF TERREBONNE.

THE STATION MARK, REFERENCE MARKS 1, 2, BIG FALLS 1945 RM A 1971 AND THE AZIMUTH MARK WERE RECOVERED IN GOOD CONDITION AS DESCRIBED BY L.D. FAIR IN 1971 AND J.D. SWINNEY IN 1974. THE TO REACH IS ADEQUATE AND THE PROPERTY OWNER, MR. DONALD WILLIAMS, IS THE SAME AND LIVES ENROUTE TO THE STATION.

THE DISTANCES AND DIRECTIONS TO ALL MARKS CHECKED WITH THE 1974 DATA.

RM 1 IS TOO CLOSE TO THE STATION TO FOCUS CLEARLY.

THIS STATION WAS USED AS GEOCEIVER STATION 52066, FOR SATELLITE OBSERVATION.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
6.5 MILES NW OF TERREBONNE.

STATION RECOVERY (1989)

RECOVERED BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1989
RECOVERED IN GOOD CONDITION. A NEW TO REACH DESCRIPTION FOLLOWS.
TO REACH FROM TERREBONE, TRAVEL NORTH ON HIGHWAY 97 FOR 0.96 KM
(0.60 MI) , TURN WEST ONTO LOWER BRIDGE ROAD AND FOLLOW IT WEST
ACROSS THE DESCHUTES RIVER AND NORTHERLY 17.8 KM (11.1 MI) TO A FARM
LANE, FOLLOW FARM LANE NORTHEAST 0.32 KM (0.20 MI) TO THE FARM HOME
OF DONALD WILLIAMS. OBTAIN PERMISSION HERE OR THE DWELLING 1000 FEET
SOUTH. FOLLOW FARM LANE NE PASSING THRU N-S FENCE AT 0.8 KM
(0.5 MI) . TURN RIGHT AT Y 0.16 KM (0.10 MI) , BEYOND THIS FENCE AND
GO DOWNHILL 0.32 KM (0.20 MI) TO A DITCH. FOLLOW THIS DITCH EASTERLY
0.64 KM (0.40 MI) TO AN OLD HOMESTEAD, TURN RIGHT AT HOMESTEAD FOR
0.16 KM (0.10 MI) TO A N-S FENCE. THIS TRACK ROAD YS 100 FEET
BEYOND THE FENCE, TAKE THE LEFT FORK, WHICH IS DIFFICULT TO SEE, AND
FOLLOW IT 2.4 KM (1.5 MI) TO THE STATION.
DESCRIBED BY DAVID BATEMAN OF DAVID EVANS AND ASSOCIATES.

BROTHERS
PID: PB0791

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: DESCHUTES

LATITUDE:	43° 48' 49.79156"	N	±0.00010	SECONDS
LONGITUDE:	120° 36' 01.00060"	W	±0.00010	SECONDS
ORTHOMETRIC HEIGHT:	1412.74			METERS
	4635.0			FEET

GEOID HEIGHT:	-18.332			METERS
ELLIPSOIDAL HEIGHT:	1394.222	±0.030		METERS
X:	4768562.584			METERS
Y:	-2776310.160			METERS
Z:	-3191074.265			METERS

HORIZONTAL NETWORK ORDER: B
VERTICAL NETWORK ORDER: THIRD
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY DIFFERENTIAL LEVELING. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.5 +04.0 (Based on Nadcon Interpolation)

PLANE COORDINATES

GRID	ZONE	NORTHING	EASTING	POINT	CONVERGENCE
		METERS	METERS	SCALE FACTOR	DEG MIN SEC
SPC	OR S	238,523.649	1,491,932.322	0.99995802	-0 04 7.0
UTM	10	4,853,994.766	692,998.579	1.00005816	+ 1 39 42.8

STATION MARK IS A SURVEY DISK
WITH SETTING TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED . . . BROTHERS 1989

STATION MARK HISTORY

YEAR MONUMENTED OR RECOVERED	CONDITION OF MARK	RECOVERED OR DESCRIBED BY
1989	STATION MONUMENTED	DESCHUTES COUNTY OREGON

(Continued on Next Page)

BROTHERS

PID: PB0791

STATION DESCRIPTION

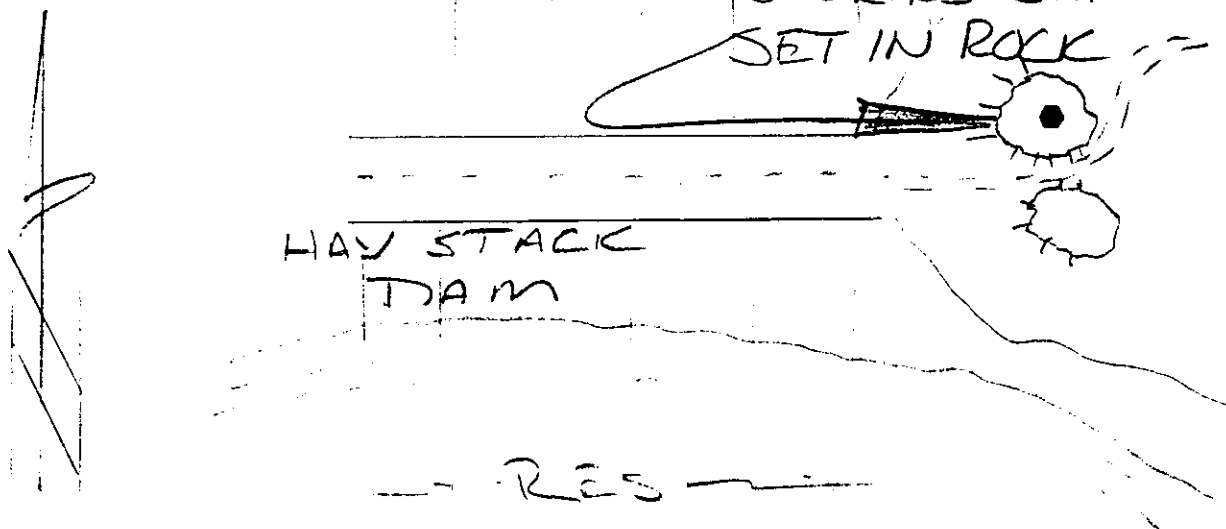
DESCRIBED 1989

THE STATION IS LOCATED ON EAST SIDE OF BROTHERS, OREGON.
TO REACH FROM BROTHERS START AT THE INTERSECTION OF US HIGHWAY 20 AND
CAMP CREEK ROAD (COUNTY ROAD NUMBER 5114) GO NORTH ON CAMP CREEK
ROAD ABOUT .10 KM (0.06 MI) AND THE STATION ON THE RIGHT.
THE STATION IS 10.7 M (35.1 FT) SOUTHEAST OF THE CENTER OF CAMP CREEK
ROAD, 1 M (3.3 FT) SOUTHEAST OF A FENCE AND IN THE NORTHEAST CORNER
OF THE BROTHERS OASIS REST AREA.
DESCRIBED BY WILLIAM C. KAUFFMAN OF DESCHUTES COUNTY.

CONTROL MARK DATA

NAME OF MARK: HAY COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 12 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 3

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>HAY</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°30'00.004910"	ONE SIGMA ERROR
Longitude:	121°09'13.886760"	
Northing:	546902.9569	FIXED
Easting:	3333788.7437	FIXED
Convergence:	+ 0°05'26.7034"	
Scale Factor:	1.000161303596	
Ellipsoid Height:	2804.3346	0.016
Orthometric Height:	2869.3396	0.068
Geoid Height:	-65.005	

HAY
PID: QD1881

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: JEFFERSON

LATITUDE:	44° 30' 00.00491" N	±0.00020 SECONDS
LONGITUDE:	121° 09' 13.88676" W	±0.00030 SECONDS

ORTHOMETRIC HEIGHT:	874.6	METERS
	2869.	FEET
GEOID HEIGHT:	-19.725	METERS
ELLIPSOIDAL HEIGHT:	854.712	±0.067 METERS
X:	5634664.989	METERS
Y:	2051397.187	METERS
Z:	-2168506.762	METERS

HORIZONTAL NETWORK ORDER: FIRST
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY GPS OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT ----- LATITUDE ----- LONGITUDE
NAD83 minus NAD27 -00.6 +04.1 (Based on Nadcon Interpolation)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT	CONVERGENCE DEG MIN SEC
				SCALE FACTOR	
SPC	OR N	92,812.953	2,448,001.539	0.99996220	- 0 27 49.3
UTM	10	4,929,066.902	646,764.660	0.99986489	+ 1 17 39.2

STATION MARK IS A HORIZONTAL CONTROL DISK
WITH SETTING DRILL HOLE IN ROCK OUTCROP
THE MARK IS STAMPED . . . HAY 1990

STATION MARK HISTORY

YEAR MONUMENTED OR RECOVERED	CONDITION OF MARK	RECOVERED OR DESCRIBED BY
1990	STATION MONUMENTED	NATIONAL GEODETIC SURVEY

(Continued on Next Page)

HAY
PID: QD1881

STATION DESCRIPTION

DESCRIBED 1990

THE STATION IS LOCATED ABOUT MIDWAY BETWEEN MADRAS AND REDMOND AND AT THE NE END OF HAYSTACK DAM.

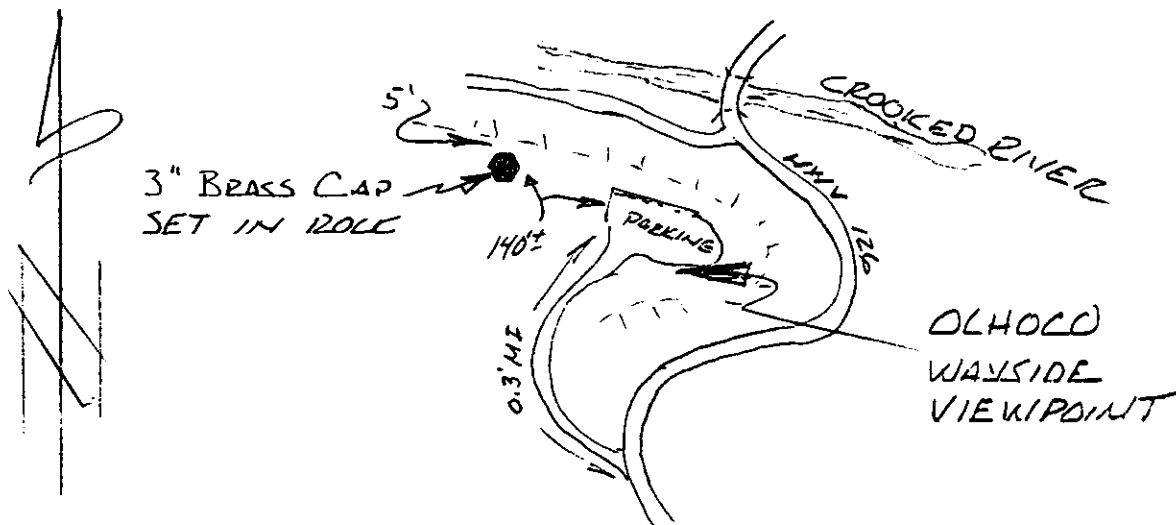
TO REACH FROM THE INTERSECTION OF US 97 AND JERICO LANE, THIS ROAD IS LOCATED MIDWAY BETWEEN REDMOND AND MADRAS, GO EASTERLY ON JERICO LANE FOR 2.48 KM (1.54 MI) TURN RIGHT, (DAMTENDERS HOUSE ON LEFT AFTER TURNING) CONTINUE 0.56 KM (0.35 MI) TO THE SOUTHWEST END OF THE DAM, TURN LEFT ONTO DAM AND GO 0.32 KM (0.20 MI) TO THE NORTHEAST END OF THE DAM AND STATION IN ROCK OUTCROP ABOUT 9 M (29.5 FT) HIGHER THAN THE DAM.

THE STATION IS 16.5 M (54.1 FT) NORTH OF THE NORTHEAST END OF THE DAM, 7.2 M (23.6 FT) WEST OF THE CENTERLINE OF A TRACK ROAD, 6.6 M (21.7 FT) WEST OF A GATE POST AND 3.3 M (10.8 FT) WSW OF A FENCE. DESCRIBED BY L.L. RIGGERS.

CONTROL MARK DATA

NAME OF MARK: PRINEVILLE COUNTY: CROOK
 MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
 DATE OF MARK: 1938 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 14 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 3

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: PRINEVILLE</u>	HORIZONTAL ORDER: <u>B</u>	
Latitude:	44°18'04.566910"	ONE SIGMA ERROR
Longitude:	120°51'54.057920"	
Northing:	474692.4438	FIXED
Easting:	3409536.5582	FIXED
Convergence:	+ 0°17'31.8065"	
Scale Factor:	1.000173700647	
Ellipsoid Height:	3125.1312	FIXED
Orthometric Height:	3188.5137	0.084
Geoid Height:	-63.3825	

PRINEVILLE

PID: QD1782

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: CROOK

LATITUDE:	44° 18' 04.56691" N	±0.00010 SECONDS
LONGITUDE:	120° 51' 54.05792" W	±0.00020 SECONDS

ORTHOMETRIC HEIGHT: {	972.0	METERS
	3189.	FEET

GEOID HEIGHT:	-19.193	METERS
ELLIPSOIDAL HEIGHT:	952.540	±0.032 METERS
X:	57378.829	METERS
Y:	603285.617	METERS
Z:	6328970.746	METERS

HORIZONTAL NETWORK ORDER: B
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY VERTICAL ANGLE OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.56209" +04.09692" (Based on Adjusted Positions)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE DEG MIN SEC
SPC	OR S	292,744.119	1,470,869.451	1.00009057	- 0 14 59.0
SPC	OR N	70,585.485	2,470,871.856	1.00000823	- 0 15 31.9
UTM	10	4,907,551.579	670,302.948	0.99995670	+ 1 29 29.4

STATION MARK IS A SURVEY DISK
WITH SETTING DRILL HOLE IN ROCK OUTCROP
THE MARK IS STAMPED . . . PRINEVILLE 1938

STATION MARK HISTORY

YEAR MONUMENTED OR RECOVERED	CONDITION OF MARK	RECOVERED OR DESCRIBED BY
1939	STATION MONUMENTED	OREGON DEPARTMENT OF TRANSPORTATION
1958	GOOD	US GEOLOGICAL SURVEY
1989	GOOD	NATIONAL GEODETIC SURVEY

(Continued on Next Page)

PRINEVILLE

PID: QD1782

STATION DESCRIPTION

DESCRIBED BY OREGON DEPARTMENT OF TRANSPORTATION 1939 (LAM)
STATION IS AT THE VERY EDGE OF THE PROMINENT HIGH RIMROCK W OF
PRINEVILLE, ABOUT 1000 FEET W OF CROOKED RIVER BRIDGE, AND ABOUT
500 FEET ABOVE THE RIVER. STATION MAY BE MOST EASILY REACHED
FROM SW AND W. STATION IS MARKED BY O.S.H.D. DISK, STAMPED
PRINEVILLE 1938, SET IN SOLID ROCK.

STATION RECOVERY (1958)

RECOVERED BY US GEOLOGICAL SURVEY 1958
RECOVERED AS DESCRIBED BY NGS. ALL MARKS IN GOOD CONDITION.

STATION RECOVERY (1989)

RECOVERED BY NATIONAL GEODETIC SURVEY 1989
AT A VIEWPOINT ON THE TOP OF A BLUFF OVERLOOKING PRINEVILLE,
TO REACH FROM THE COURTHOUSE IN PRINEVILLE GO WESTERLY ON E. THIRD ST.
TO JUNCTION WITH STATE HIGHWAY 126, TURN LEFT ONTO HIGHWAY 126 AND GO
1.6 KM (1.0 MI) TO A ROAD RIGHT LEADING TO OCHOCO WAYSIDE VIEW POINT,
TURN RIGHT AND GO TOWARD WAYSIDE FOR 0.48 KM (0.30 MI) TO NORTH END
OF A PARKING AREA. THE STATION IS ABOUT 41 METERS NORTH OF THIS
POINT.
THE STATION IS 40.7 M (133.5 FT) NNW OF NORTHERN MOST END OF A ROCK
GUARDRAIL FOR VIEWPOINT, 1.8 M (5.9 FT) WEST OF THE TOP EDGE OF BLUFF
AND 1.4 M (4.6 FT) ESE OF A WITNESS POST.
DESCRIBED BY L.L. RIGGERS.

SISTERS

PID: QD1879

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: DESCHUTES

LATITUDE:	44° 18' 20.44212" N	±0.00010 SECONDS
LONGITUDE:	121° 33' 21.22157" W	±0.00020 SECONDS
ORTHOMETRIC HEIGHT:	967.45	METERS
	3174.0	FEET

GEOID HEIGHT:	-19.877	METERS
ELLIPSOIDAL HEIGHT:	947.349	±0.034 METERS
X:	210226.958	METERS
Y:	-1140713.029	METERS
Z:	6251734.512	METERS

HORIZONTAL NETWORK ORDER: B
VERTICAL NETWORK ORDER: THIRD
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY DIFFERENTIAL LEVELING. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 :00.6 +04.2 (Based on Nadcon Interpolation)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE DEG MIN SEC
SPC	OR S	293,701.864	1,415,741.181	1.00009210	- 0 43 20.6
SPC	OR N	71,560.264	2,415,748.511	1.00000708	- 0 44 55.8
UTM	10	4,906,838.788	615,184.075	0.99976317	+ 1 00 31.7

STATION MARK IS A SURVEY DISK
WITH SETTING TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED . . . SISTERS 1989

STATION MARK HISTORY

<u>YEAR MONUMENTED OR RECOVERED</u>	<u>CONDITION OF MARK</u>	<u>RECOVERED OR DESCRIBED BY</u>
1989	STATION MONUMENTED	DESCHUTES COUNTY OREGON

(Continued on Next Page)

SISTERS
PID: QD1879

STATION DESCRIPTION

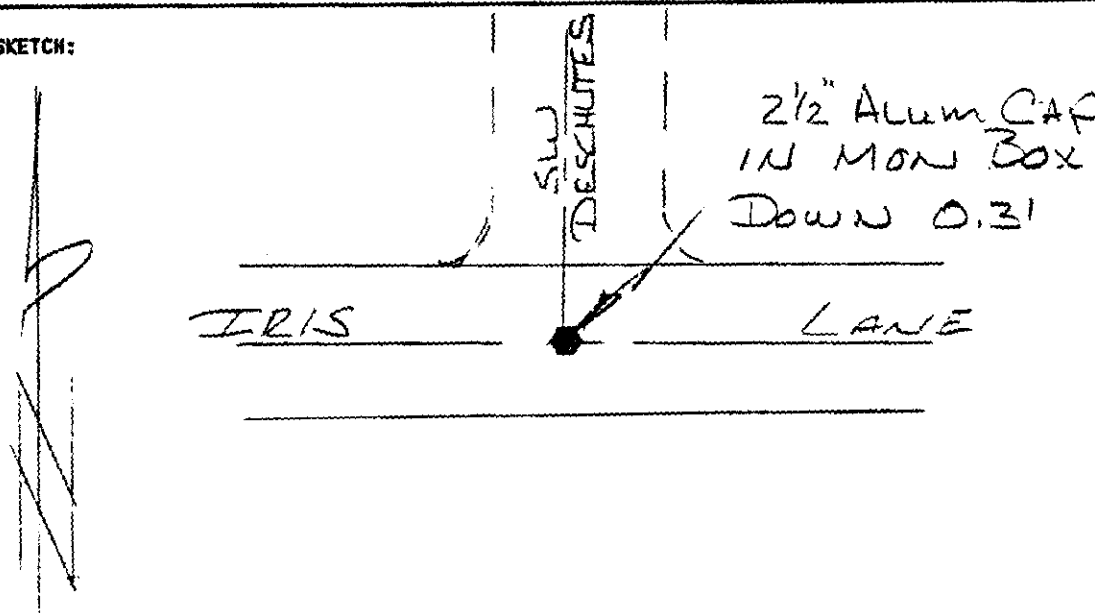
DESCRIBED 1989

THE STATION IS LOCATED 1.6 KM (1.0 MI) NORTH OF SISTERS, ON USFS LAND. TO REACH THE STATION FROM THE INTERSECTION OF US HIGHWAY 20 AND PINE STREET IN SISTERS, GO NORTH ON PINE STREET 0.91 KM (0.57 MI) TO THE END OF PAVEMENT, PROCEED NORTHERLY ON GRAVEL ROAD, (USFS RD NUMBER 2058) FOR 0.53 KM (0.33 MI) TO ROAD FORK, TURN LEFT ON DIRT ROAD AND GO 0.13 KM (0.08 MI) TO THE STATION ON THE LEFT IN A LARGE CLEARING. THE STATION IS AN ORDOT PRIMARY GPS STATION DISK STAMPED---SISTERS 1989---, SET INTO THE TOP OF A 40 CM DIAMETER POST THAT IS FLUSH WITH THE GROUND. IT IS ABOUT 30 M (98.4 FT) WEST OF THE CENTERLINE OF THE DIRT ROAD, AND 1.0 M (3.3 FT) SOUTH OF A WITNESS POST. DESCRIBED BY WILLIAM KAUFFMAN, DESCHUTES COUNTY PUBLIC WORKS.

CONTROL MARK DATA

NAME OF MARK: 12131600 COUNTY: JEFFERSON
 MARK SET BY: JEFFERSON CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 12 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MP# 883336

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

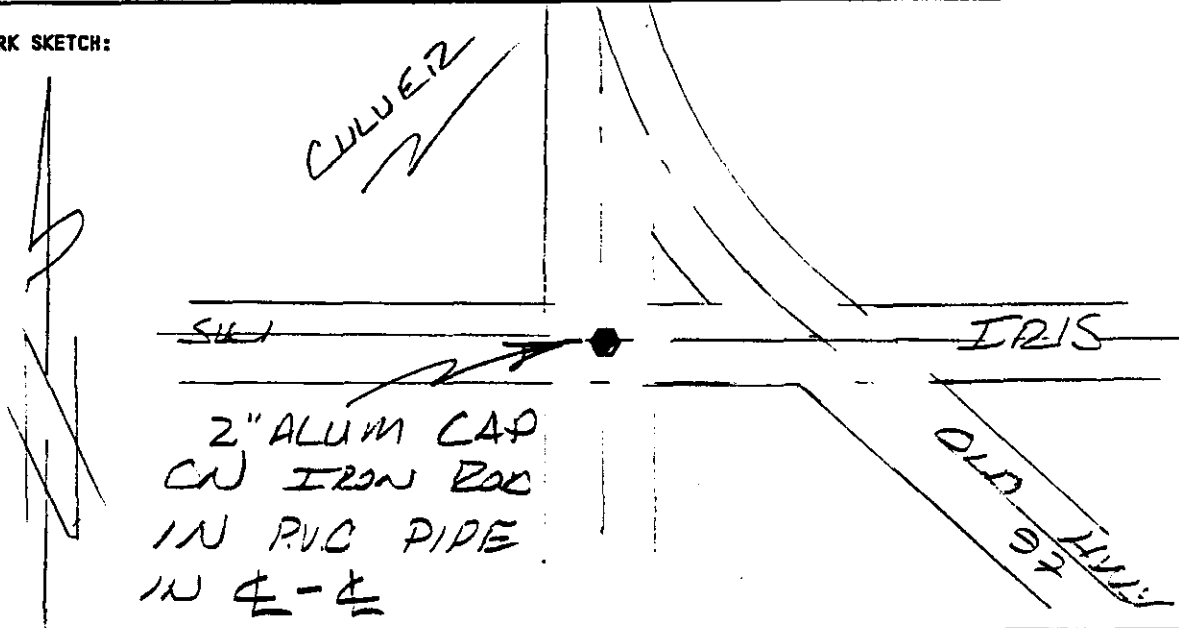
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 12131600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°31'13.584714"	ONE SIGMA ERROR
Longitude:	121°11'23.453894"	
Northing:	554342.8115	0.010
Easting:	3324387.8432	0.009
Convergence:	+ 0°03'55.9740"	
Scale Factor:	1.000160679115	
Ellipsoid Height:	2623.22	0.018
Orthometric Height:	2688.7162	0.075
Geoid Height:	-65.4961	

CONTROL MARK DATA

NAME OF MARK: 12131700 COUNTY: JEFFERSON
MARK SET BY: N/A STATE: OREGON
DATE OF MARK: N/A COUNTRY: U.S.A.
LOCATION: SECTION 17 TOWNSHIP 12 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: MF# 941724

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

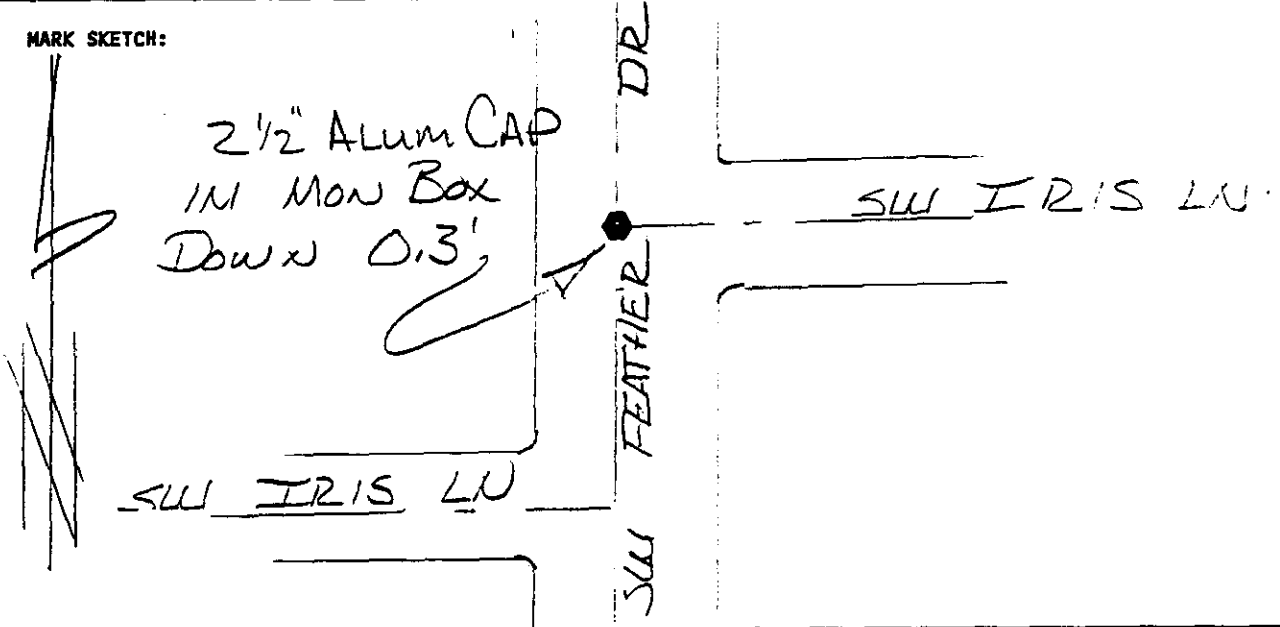
GEODETIC AND MAPPING COORDINATES

MARK: <u>12131700</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°31'13.732954"</u>	ONE SIGMA ERROR
Longitude:	<u>121°12'36.042688"</u>	
Northing:	<u>554352.4575</u>	<u>0.017</u>
Easting:	<u>3319127.6764</u>	<u>0.017</u>
Convergence:	<u>+ 0°03'05.0775"</u>	
Scale Factor:	<u>1.000160417754</u>	
Ellipsoid Height:	<u>2575.4859</u>	<u>0.026</u>
Orthometric Height:	<u>2641.1594</u>	<u>0.085</u>
Geoid Height:	<u>-65.6735</u>	

CONTROL MARK DATA

NAME OF MARK: 12131800 COUNTY: JEFFERSON
MARK SET BY: JEFFERSON CO. SURVEYOR STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 18 TOWNSHIP 12 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: MF# 883326

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

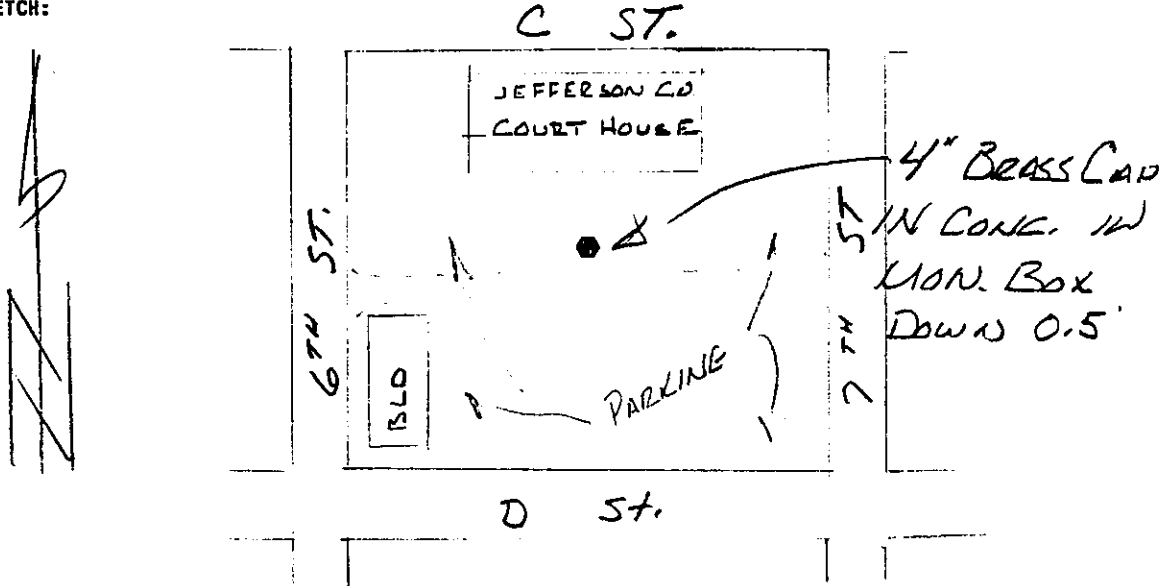
MARK: 12131800 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°31'13.786135"</u>	ONE
Longitude:	<u>121°13'45.497029"</u>	SIGMA
Northing:	<u>554353.9221</u>	ERROR
Easting:	<u>3314094.6614</u>	0.011
Convergence:	<u>+ 0°02'16.3786"</u>	0.011
Scale Factor:	<u>1.000160226833</u>	
Ellipsoid Height:	<u>2549.8054</u>	0.019
Orthometric Height:	<u>2615.6559</u>	0.091
Geoid Height:	<u>-65.8505</u>	

CONTROL MARK DATA

NAME OF MARK: SKY COUNTY: JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
DATE OF MARK: 1989 COUNTRY: U.S.A.
LOCATION: SECTION 12 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 3

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

MARK: SKY HORIZONTAL ORDER: B

Latitude:	<u>44°38'02.205020"</u>	ONE SIGMA ERROR
Longitude:	<u>121°07'40.236110"</u>	FIXED
Northing:	<u>595755.7894</u>	FIXED
Easting:	<u>3340484.5059</u>	FIXED
Convergence:	<u>+ 0°06'33.2765"</u>	
Scale Factor:	<u>1.000161871385</u>	
Ellipsoid Height:	<u>2176.5256</u>	FIXED
Orthometric Height:	<u>2242.6148</u>	FIXED
Geoid Height:	<u>-66.0892</u>	

PILOT BUTTE

PID: QD1681

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: DESCHUTES

LATITUDE:	44° 03' 37.94301" N	±0.00010 SECONDS
LONGITUDE:	121° 16' 59.64811" W	±0.00020 SECONDS

ORTHOMETRIC HEIGHT:	1261.4	METERS
	4138.	FEET
GEOID HEIGHT:	-19.433	METERS
ELLIPSOIDAL HEIGHT:	1241.747	±0.034 METERS
X:	1801468.589	METERS
Y:	2876581.605	METERS
Z:	5383440.509	METERS

HORIZONTAL NETWORK ORDER: B
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY VERTICAL ANGLE OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.58599" +04.10711" (Based on Adjusted Positions)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE DEG MIN SEC	*GRID AZIMUTH TO PILOT BUTTE AZ MK DEG MIN SEC
						DEG MIN SEC
SPC	OR S	266,223.939	1,437,243.481	1.00001595	- 0 32 9.1	267 51 56.9
SPC	OR N	44,073.993	2,437,239.542	1.00007981	- 0 33 19.7	267 52 56.9
UTM	10	4,880,029.657	637,500.737	0.99983253	+ 1 11 38.6	266 08 09.2

(*ARC-TO-CHORD CORRECTION NOT APPLIED)

(Continued on Next Page)

PILOT BUTTE
PID: QD1681

STATION MARKS AND REFERENCE OBJECTS

PID	REFERENCE OBJECT	DISTANCE	GEODETIC AZIMUTH
QD1680	PILOT BUTTE USGS 1932	10.270 METERS	030 17
	PILOT BUTTE RM 1	184.670 METERS	151 40
QD1679	SCENIC PIER ARROW PIVOT S 1945	7.814 METERS	158 27
QD1678	BEND WATER TANK	APPROX. 4.0 KM	188 02 02.9
	PILOT BUTTE RM 2	127.580 METERS	247 32
QD1683	BEND BROOKS SCANLON INC TANK	APPROX. 3.5 KM	247 41 28.4
	PILOT BUTTE AZ MK		267 19 47.8
QD1687	BEND PACIFIC GAS MICROWAVE	APPROX. 4.3 KM	295 30 55.1
QD1688	BEND BONNVILLE POW ADM RD MST	APPROX. 4.3 KM	295 50 23.0
QD1685	BEND RAD STA KBND NW MAST	APPROX. 1.9 KM	329 34 53.6
QD1686	BEND RAD STA KBND SE MAST	APPROX. 1.9 KM	331 20 53.0
QD1682	SCENIC PIER ARROW PIVOT N 1945	6.209 METERS	338 44
QD1689	BEND RAD STA KGRL MAST	APPROX. 2.1 KM	358 24 40.9

STATION MARK IS A HORIZONTAL CONTROL DISK
WITH SETTING TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED . . . PILOT BUTTE 1932

STATION MARK HISTORY

<u>YEAR MONUMENTED OR RECOVERED</u>	<u>CONDITION OF MARK</u>	<u>RECOVERED OR DESCRIBED BY</u>
1932	STATION MONUMENTED	COAST AND GEODETIC SURVEY
1945		COAST AND GEODETIC SURVEY (CAG)
1958	GOOD	US GEOLOGICAL SURVEY
1959		BONNEVILLE POWER ADMINISTRATION
1966	GOOD	US GEOLOGICAL SURVEY
1971		NATIONAL GEODETIC SURVEY (LDF)
1987	GOOD	NATIONAL GEODETIC SURVEY (LLR)
1989	GOOD	LOCAL SURVEYOR (INDIVIDUAL OR FIRM)

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1932

STATION IS LOCATED ABOUT 1.0 MILE E OF BEND ON THE TOP OF PILOT BUTTE.

STATION MARK IS A STANDARD BRONZE DISK SET IN CONCRETE AS DESCRIBED IN NOTE 1A. REFERENCE MARKS ARE STANDARD BRONZE DISKS IN OUTCROPPING BEDROCK AS DESCRIBED IN NOTE 12A.

U.S.G.S., PILOT BUTTE IS A U.S.G.S. STANDARD DISK IN OUTCROPPING BEDROCK NNE OF STATION.

REFERENCE MARK NO.1 IS WNW OF STATION.

SCENIC PIERS ARE NW AND SE OF STATION.

WATER TANK, (AZIMUTH MARK) IS S OF STATION.
(Continued on Next Page)

PILOT BUTTE

PID: QD1681

REFERENCE MARK NO.2 IS WSW OF STATION.

STATION IS REACHED FROM BEND BY GOING E ON THE GREENWOOD AVENUE OR BURNS HIGHWAY FOR ABOUT 3/4 MILE TO THE JUNCTION WITH THE PILOT BUTTE ROAD. TAKE THE PILOT BUTTE ROAD AND FOLLOW THE CORKSCREW ROAD TO THE TOP OF THE BUTTE AND THE STATION.

HEIGHT OF SIGNAL ABOVE STATION MARK - 1-1/2 METERS.

STATION RECOVERY (1945)

RECOVERED BY COAST AND GEODETIC SURVEY 1945 (CAG)
THE STATION AND ALL MARKS WERE RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION WITH THE EXCEPTION OF REFERENCE MARK NO. 1 WHICH COULD NOT BE RECOVERED AND IS BELIEVED TO HAVE BEEN DESTROYED BY ROAD CONSTRUCTION. AN AZIMUTH MARK WAS ESTABLISHED.

A COMPLETE NEW DESCRIPTION FOLLOWS.

THE STATION IS LOCATED ABOUT 1 MILE EAST OF BEND ON THE HIGHEST PART OF PILOT BUTTE AND IS IN THE CENTER OF A TRAFFIC CIRCLE. IT IS DESCRIBED BY NOTE 1A AND IS FLUSH WITH THE SURFACE OF THE GROUND. IT IS STAMPED PILOT BUTTE 1932.

U.S.G.S. MARK IS A STANDARD DISK B.M. TABLET SET IN A SMALL LAVA BOULDER THAT IS FLUSH WITH THE GROUND SURFACE. IT IS STAMPED PILOT BUTTE 4136 1916.

REFERENCE MARK NO. 2 IS SET IN A LARGE BOULDER THAT PROJECTS ABOUT 3 FEET. IT IS ABOUT 5 FEET BELOW STATION ELEVATION. IT IS DESCRIBED BY NOTE 12C AND IS STAMPED PILOT BUTTE NO 2 1932.

SCENIC PIER, ARROW PIVOT, NORTH. IT IS A SMALL TOWER 3.5 FEET HIGH AND 2X2 FEET SQUARE. IT IS CONSTRUCTED OF ROCK AND HAS A FLAT TOP WITH A POINT IN THE CENTER FOR A ARROW PIVOT TO BE PLACED.

SCENIC PIER, ARROW PIVOT, SOUTH. IT IS A SMALL TOWER 3.5 FEET HIGH AND 2X2 FEET SQUARE. IT IS CONSTRUCTED OF ROCK AND HAS A FLAT TOP WITH A POINT IN THE CENTER FOR A ARROW PIVOT TO BE PLACED.

AZIMUTH MARK IS ABOUT 0.8 MILE WEST OF THE STATION. IT IS A STANDARD DISK CEMENTED INTO A DRILL HOLE IN A CONCRETE CURB. IT IS 141 FEET WEST OF THE CENTER OF THE INTERSECTION OF THIRD ST. AND U.S. HIGHWAY NO. 20, 125 FEET EAST OF THE NORTHEAST CORNER OF THE MISSIONARY BAPTIST CHURCH AND 28 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY NO. 20. IT IS STAMPED PILOT BUTTE 1945. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 97 AND U.S. HIGHWAY NO. 20. GO EAST ON U.S. HIGHWAY NO. 20, TOWARDS BURNS, FOR 0.45 MILE TO THE AZIMUTH MARK ON THE RIGHT AS DESCRIBED.

TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 97 AND U.S. HIGHWAY NO. 20 IN BEND, GO EAST, TOWARDS BURNS, ON U.S. HIGHWAY NO. 20 FOR 1.7 MILES TO A ROAD FORKS. TURN LEFT ON TO PILOT BUTTE ROAD AND CONTINUE 1.1 MILES TO TOP OF BUTTE AND THE STATION AS DESCRIBED.

(Continued on Next Page)

PILOT BUTTE

PID: QD1681

STATION RECOVERY (1958)

RECOVERED BY US GEOLOGICAL SURVEY 1958
RECOVERED AS DESCRIBED BY NGS. RMS NOT OBSERVED.

STATION RECOVERY (1959)

RECOVERED BY BONNEVILLE POWER ADMINISTRATION 1959
STATION RECOVERED AS DESCRIBED. THE HIGHWAY IS NOW UNITED STATES
HIGHWAY NO. 20.

STATION RECOVERY (1966)

RECOVERED BY US GEOLOGICAL SURVEY 1966
RECOVERED AS DESCRIBED BY NGS. RMS NOT OBSERVED.

STATION RECOVERY (1971)

RECOVERED BY NATIONAL GEODETIC SURVEY 1971 (LDF)
STATION MARK, REFERENCE MARKS 1,2 AND THE AZIMUTH MARK WERE
RECOVERED AND FOUND IN GOOD CONDITION. SCENIC PIER ARROW PIVOT
NORTH WAS RECOVERED IN GOOD CONDITION BUT SCENIC PIER ARROW PIVOT
SOUTH HAD BEEN REMOVED. A SLIGHT DIFFERENCE WAS NOTED IN THE
DISTANCE AND DIRECTION TO BOTH REFERENCE MARKS AND A NOTICEABLE
DIFFERENCE WAS NOTED IN THE DIRECTION TO THE AZIMUTH MARK AND
WAS CHECKED IN THE FIELD.

FOLLOWING IS A NEW AND COMPLETE DESCRIPTION--

STATION IS LOCATED ABOUT 1 MILE EAST OF BEND AND IS ON THE HIGHEST
POINT OF WHAT IS LOCALLY KNOWN AS PILOT BUTTE.

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 97 AND 20
IN BEND, (THE AZIMUTH MARK IS LOCATED AT THIS JUNCTION) GO EAST ON
U.S. HIGHWAY 20 FOR 0.75 MILE TO A FORK AND SIGN PILOT BUTTE STATE
PARK. TAKE THE LEFT FORK AND GO EAST UP WINDING PAVED ROAD FOR
1.0 MILE TO THE HIGHEST POINT AND THE STATION.

STATION MARK IS A STANDARD DISK, STAMPED PILOT BUTTE 1932, SET IN
THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH PROJECTS ABOUT
2 INCHES ABOVE THE SURFACE OF THE GROUND. IT IS IN THE CENTER OF
A TRAFFIC CIRCLE AND IS 59 FEET NORTH OF A SET OF ROCK STEPS
LEADING TO THE TOP OF THE HILL, 24.5 FEET NORTHWEST OF A ROCK
MONUMENT AND 19 FEET EAST-SOUTHEAST OF A ROCK MONUMENT.

REFERENCE MARK 1 IS A STANDARD DISK, STAMPED PILOT BUTTE NO 1
1932, CEMENTED IN A DRILL HOLE IN THE TOP OF A 1 X 2 FOOT OUTCROP
WHICH PROJECTS ABOUT 2 INCHES ABOVE THE SURFACE OF THE GROUND. IT
IS 93 FEET EAST-SOUTHEAST OF THE APPROXIMATE CENTER OF THE CIRCLE
DRIVE ROAD AND 41 FEET WEST OF THE CENTER OF THE PAVED ROAD
LEADING UP THE HILL.

(Continued on Next Page)

PILOT BUTTE

PID: QD1681

REFERENCE MARK 2 IS A STANDARD DISK, STAMPED PILOT BUTTE NO 2 1932, CEMENTED IN A DRILL HOLE IN THE TOP OF A LARGE BOULDER WHICH PROJECTS ABOUT 2-1/2 FEET ABOVE THE SURFACE OF THE GROUND. IT IS 88 FEET SOUTHWEST OF THE ROCK STEPS AND 47 FEET SOUTHWEST OF THE APPROXIMATE CENTER OF THE ROAD CIRCLING THE TOP OF THE HILL.

SCENIC PIER ARROW PIVOT NORTH IS A PUNCH HOLE IN THE TOP OF A ROUND METAL PLATE FASTENED TO THE TOP OF A ROCK AND CONCRETE MONUMENT WHICH PROJECTS ABOUT 3-1/2 FEET. IT IS ON THE HIGHEST PART OF THE HILL.

AZIMUTH MARK IS A STANDARD DISK, STAMPED PILOT BUTTE 1945, CEMENTED IN A DRILL HOLE IN THE SOUTH CURB OF U.S. HIGHWAY 20 (BUSINESS). IT IS 145 FEET WEST OF THE CENTER OF THIRD STREET, 125 FEET EAST OF THE NORTHEAST CORNER OF A CHURCH AND 28 FEET SOUTH OF THE CENTER OF THE ROAD.

STATION IS IN THE NORTHWEST 1/4 OF SECTION 34, T 17 S, R 12 E.

HEIGHT OF LIGHT ABOVE STATION MARK 30 FEET.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
1 MILE EAST OF BEND.

STATION RECOVERY (1987)

RECOVERED BY NATIONAL GEODETIC SURVEY 1987 (LLR)
THE STATION WAS RECOVERED AT THIS DATE.
NONE OF THE OTHER MARKS WERE SEARCHED FOR AT THIS DATE. THE 1971 RECOVERY NOTE IS ADEQUATE FOR RECOVERY.

STATION RECOVERY (1989)

RECOVERED BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1989
TEXT WAS SUPERSEDED BY LATER RECOVERY.
STATION IS LOCATED ABOUT 3.2 KM (2.00 MI) EAST OF DOWNTOWN BEND ON THE TOP OF PILOT BUTTE. OWNERSHIP--PILOT BUTTE STATE PARK, DISTRICT MANAGER--STEVE WEINMEYER, 62796 O B RILEY RD, BEND OR 97701, PHONE 503-388-6055.
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 20 AND U.S. HIGHWAY 97, IN BEND, GO EAST ON U.S. HIGHWAY 20 FOR 0.72 KM (0.45 MI) TO N.E. 8TH STREET. CONTINUE AHEAD, EAST, FOR 0.48 KM (0.30 MI) ON U.S. HIGHWAY 20 TO THE ENTRANCE OF PILOT BUTTE STATE PARK ON THE LEFT. TURN LEFT AND FOLLOW PARK ROAD PAST GATE (GATE MAYBE LOCKED BY HIGHWAY DEPARTMENT DURING WINTER MONTHS) GOING UPHILL, CIRCLING BUTTE FOR 1.8 KM (1.10 MI) TO TOP OF BUTTE AND STATION IN THE CENTER OF VIEWING AREA.
STATION IS LOCATED 11.9 M (39.0 FT) WEST OF STONE MONUMENT PROJECTING 1.3 M (4.3 FT) ABOVE GROUND WITH PLAQUE HONORING TERRANCE FOLEY, 8.2 M (26.9 FT) NORTHWEST OF STONE MONUMENT PROJECTING 1.1 M (3.6 FT) ABOVE GROUND AND 6.1 M (20.0 FT) SOUTHEAST OF STONE MONUMENT WITH PLAQUE IDENTIFYING LOCAL MOUNTAIN PEAKS.

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SKY
PID: QD1880

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: JEFFERSON

LATITUDE:	44° 38' 02.20502" N	±0.00010 SECONDS
LONGITUDE:	121° 07' 40.23611" W	±0.00010 SECONDS

ORTHOMETRIC HEIGHT:	683.6	METERS
	2243.	FEET

GEOID HEIGHT:	-19.999	METERS
ELLIPSOIDAL HEIGHT:	663.405	±0.033 METERS
X:	286013.295	METERS
Y:	-1322302.977	METERS
Z:	-6212805.624	METERS

HORIZONTAL NETWORK ORDER: B
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY GPS OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.6 +04.2 (Based on Nadcon Interpolation)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT	CONVERGENCE
				SCALE FACTOR	DEG MIN SEC
SPC	OR N	107,679.698	2,450,185.946	0.99993786	- 0 26 42.9
UTM	10	4,943,992.486	648,491.459	0.99987116	+ 1 18 56.1

STATION MARK IS A SURVEY DISK
WITH SETTING TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED . . . SKY

STATION MARK HISTORY

YEAR MONUMENTED OR RECOVERED	CONDITION OF MARK	RECOVERED OR DESCRIBED BY
1989	STATION MONUMENTED	LOCAL SURVEYOR (INDIVIDUAL OR FIRM)

(Continued on Next Page)

DEPARTMENT OF COMMERCE
NOAA - NOS - C&GS
NATIONAL GEODETIC SURVEY

PUBLICATION DATE: APRIL 26, 1991
USGS QUAD SHEET: MADRAS WEST

SKY
PID: QD1880

STATION DESCRIPTION

DESCRIBED 1989
THE STATION IS LOCATED IN MADRAS, IN ASPHALT PARKING LOT BEHIND COUNTY COURTHOUSE, AT 657 C STREET AND IN A NO PARKING TRIANGLE.
THE STATION IS LOCATED 42.67 M (139.99 FT) SOUTH AND 7.62 M (25.00 FT) WEST OF THE SE CORNER OF THE COUNTY COURTHOUSE. IT IS ALSO 40.54 M (133.00 FT) NORTH OF THE NORTH CURB FACE OF D STREET AND 19.66 M (64.50 FT) WEST OF THE WEST CURB FACE OF 7TH STREET. ACCESS IS THROUGH A PROTECTIVE MONUMENT WELL BOX.
DESCRIBED BY GARY L. DEJARNATT, JEFFERSON COUNTY SURVEYOR.

WICKIUP
PID: PB0795

HORIZONTAL DATUM: NAD 83 (1991)
VERTICAL DATUM: NGVD 29

STATE: OREGON
COUNTY: DESCHUTES

LATITUDE:	43° 40' 56.59981" N	±0.00020 SECONDS
LONGITUDE:	121° 41' 15.57620" W	±0.00030 SECONDS

ORTHOMETRIC HEIGHT:	1327.1	METERS
	4354.	FEET

GEOID HEIGHT:	-19.437	METERS
ELLIPSOIDAL HEIGHT:	1307.409	±0.059 METERS
X:	343722.209	METERS
Y:	1442773.593	METERS
Z:	-6183862.513	METERS

HORIZONTAL NETWORK ORDER: B
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY GPS OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE
NAD83 minus NAD27 -00.6 +04.1 (Based on Nadcon Interpolation)

PLANE COORDINATES

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT	CONVERGENCE DEG MIN SEC
				SCALE FACTOR	
SPC	OR S	224,594.403	1,404,245.081	0.99993478	- 0 48 45.1
UTM	10	4,837,434.179	605,775.779	0.99973762	+ 0 54 23.3

STATION MARK IS A HORIZONTAL CONTROL DISK
WITH SETTING TOP OF CONCRETE MONUMENT (ROUND)
THE MARK IS STAMPED . . . WICKIUP 1990

STATION MARK HISTORY

<u>YEAR MONUMENTED OR RECOVERED</u>	<u>CONDITION OF MARK</u>	<u>RECOVERED OR DESCRIBED BY</u>
1990	STATION MONUMENTED	NATIONAL GEODETIC SURVEY

(Continued on Next Page)

WICKIUP
PID: PB0795

STATION DESCRIPTION

DESCRIBED 1990

THE STATION IS LOCATED ABOUT 9 MILES WEST OF LAPINE AT THE SOUTHEAST END OF WICKIUP DAM.

TO REACH FROM THE INTERSECTION OF HIGHWAY 97 AND BURGESS ROAD (THIS INTERSECTION IS ABOUT 3 MILES NORTH OF LAPINE) GO WEST ON BURGESS ROAD FOR 16.96 KM (10.54 MI) TO A ROAD FORK, TAKE LEFT FORK (ROAD 4380) AND GO 5.92 KM (3.68 MI) TO A T JUNCTION ON WICKIUP DAM, TURN LEFT AND GO 2.72 KM (1.69 MI) TO THE SE END OF THE DAM, CONTINUE ON 0.05 KM (0.03 MI) TO THE STATION ON THE LEFT.

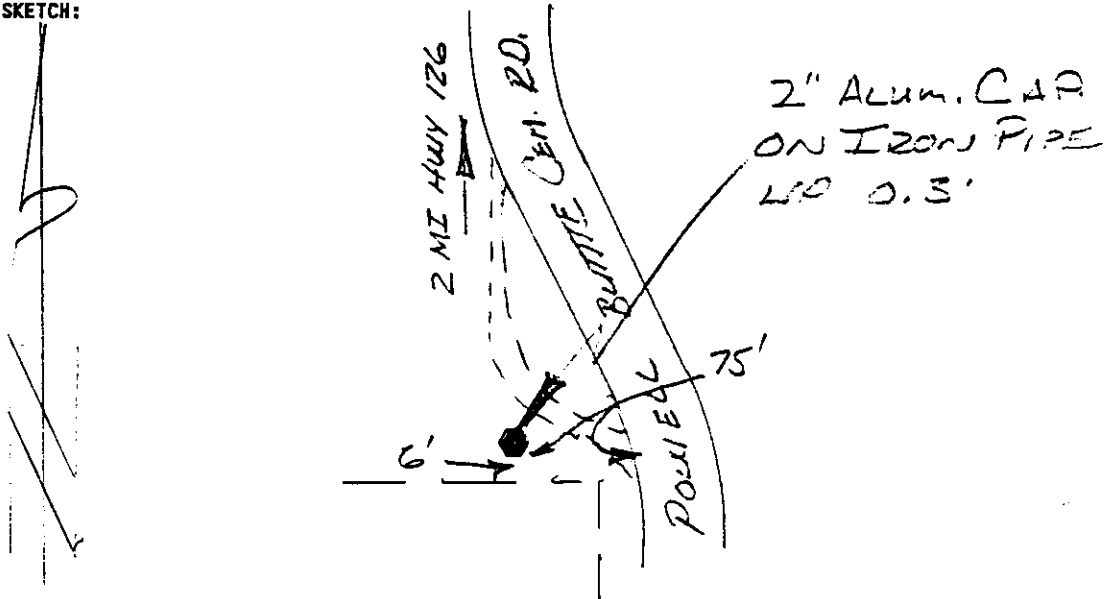
THE STATION IS SET INTO A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND. IT IS 14.7 M (48.2 FT) WEST OF THE SE CORNER OF A FENCE AROUND A WEATHER STATION, 13.8 M (45.3 FT) EAST OF THE CENTERLINE OF THE DAM EXTENDED, 9.1 M (29.9 FT) SW OF THE WEST STEEL GATE POST, AND 0.8 M (2.6 FT) EAST OF A WITNESS POST.

THE DAM TENDER HOUSE IS ABOUT 100 METERS EAST OF THIS STATION.
DESCRIBED BY L.L. RIGGERS.

CONTROL MARK DATA

NAME OF MARK: 15143500 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1994 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 15 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM Z-17

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

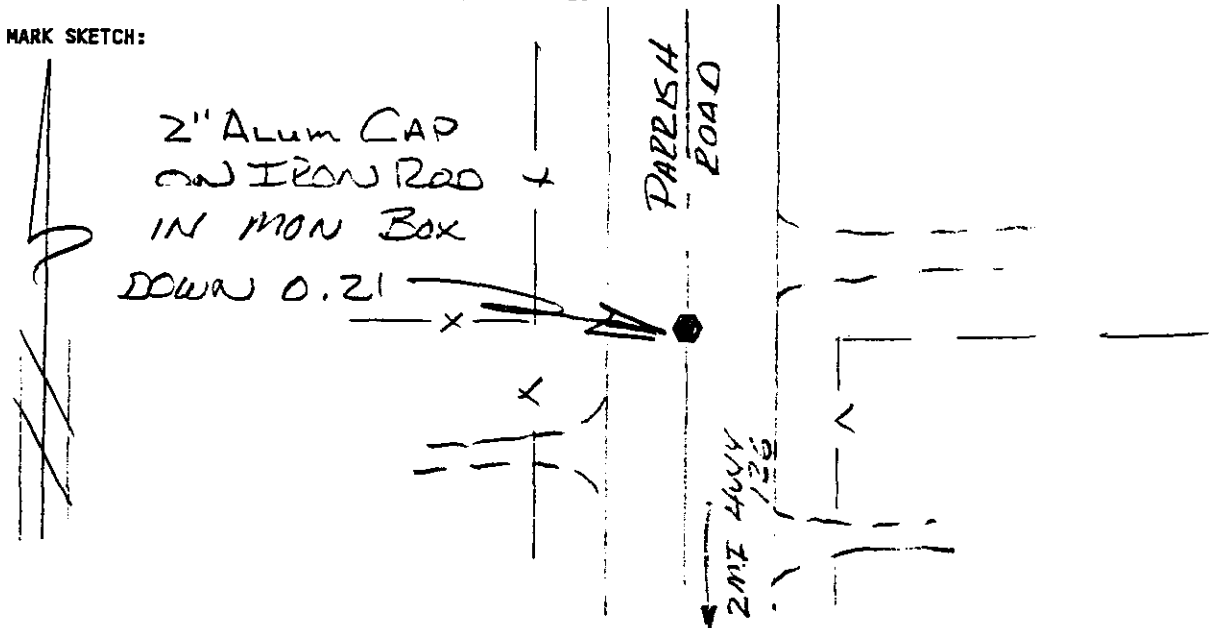
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>15143500</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°13'07.211401"	ONE SIGMA ERROR
Longitude:	121°01'39.849891"	
Northing:	444400.5556	0.017
Easting:	3367022.0123	0.016
Convergence:	+ 0°10'41.7137"	
Scale Factor:	1.000165129366	
Ellipsoid Height:	3233.3619	0.025
Orthometric Height:	3297.3369	0.072
Geoid Height:	-63.975	

CONTROL MARK DATA

NAME OF MARK: 15150800 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 15 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM J-5

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

MARK: 15150800

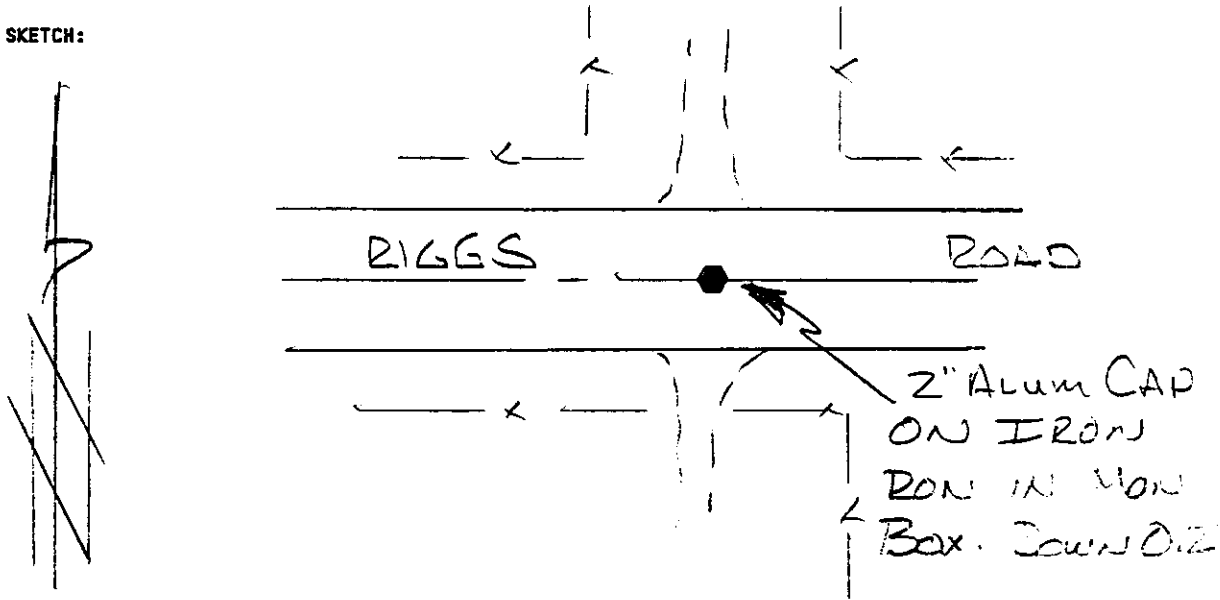
HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°16'35.203702"	
Longitude:	120°58'03.604773"	
Northing:	465521.2289	0.012
Easting:	3382691.923	0.011
Convergence:	+ 0°13'13.3455"	
Scale Factor:	1.000167808181	
Ellipsoid Height:	3066.5046	0.017
Orthometric Height:	3130.4511	0.062
Geoid Height:	-63.9465	

CONTROL MARK DATA

NAME OF MARK: 15153000 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 15 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM V-1

MARK SKETCH:



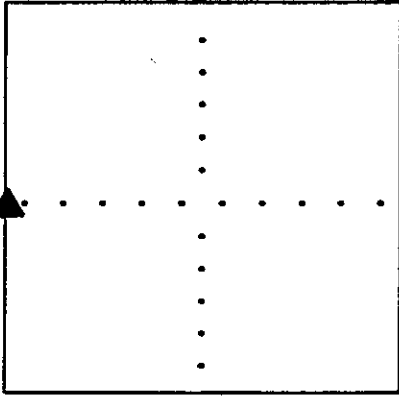
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: 15153000</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°13'59.124840"	ONE SIGMA ERROR
Longitude:	120°59'15.053327"	
Northing:	449693.8351	0.017
Easting:	3377549.7911	0.016
Convergence:	+ 0°12'22.8879"	
Scale Factor:	1.000166867348	
Ellipsoid Height:	3263.6444	0.024
Orthometric Height:	3327.4636	0.062
Geoid Height:	-63.8192	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: 16120840 GIS # 0029 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 16 S.- R. 12 E., SEC.08</p>	<p>LATITUDE: 44° 12' 11.92836" N LONGITUDE: 121° 19' 25.72114" W</p> <p>----- EC CARTESIAN ----- X: -2381250.165 METERS Y: -3912804.381 METERS Z: +4424976.764 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 950.102 METERS NGVD 29 : 970.064 METERS NAVD 88 : 971.198 METERS</p> <p>---- SPC -- OREGON SOUTH ---- NORTH: 282119.218±.003 METERS EAST: 1434148.514±.003 METERS</p> <p>SCALE FACTOR: 1.000058043 CONVERGENCE: - 0° 33' 48.99 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - T 16 S R 12 E 1/4 7/8 LS 1034
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 10.0 MILES NORTHWESTERY OF BEND.

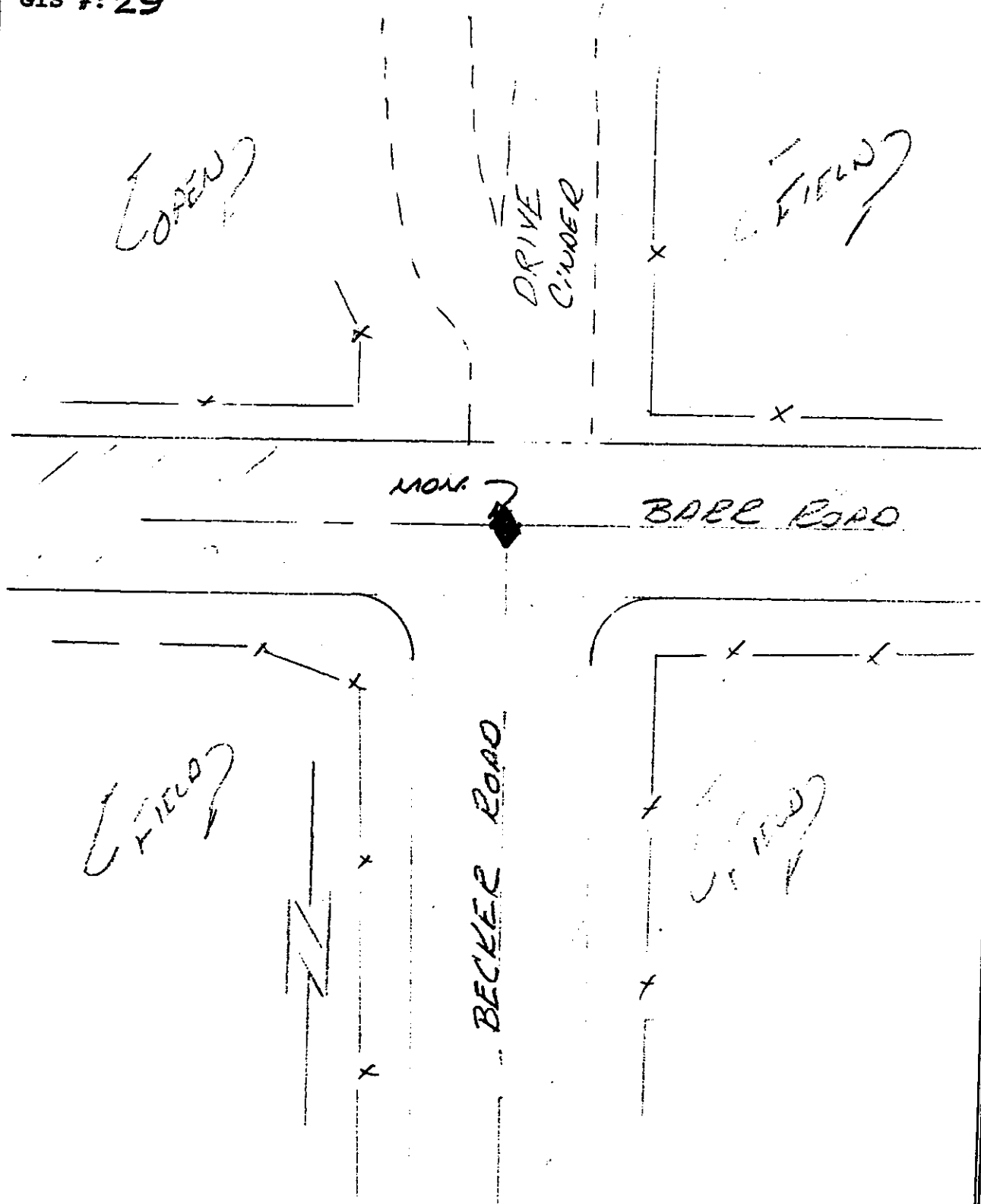
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 2.50 MI., TURN LEFT (TAKE HWY 20 OVERPASS) WESTERLY FOR 3.8 MI. TO CLINE FALLS HWY (IN TUMALO), TURN RIGHT & PROCEED NORTH FOR 3.75 MILES TO A CURVE TO THE RIGHT, CONTINUE STRAIGHT AHEAD FOR 0.42 MI. ON BECKER ROAD TO THE STATION IN THE CENTER OF THE INTERSECTION WITH BARR ROAD.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN GROUT ATTACHED TO A 5/8 IN. BAR, DISK IS 0.1 FOOT BELOW PAVED ROAD SURFACE.
10 FEET SOUTH OF THE NORTH EDGE OF BARR ROAD.

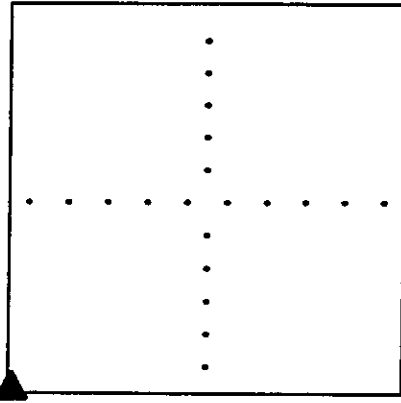
Location and reference sketch:

Name: 16120840

GIS #: 29



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: 17142600 GIS # 0026 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 17 S.- R. 14 E., SEC.26</p>	<p>LATITUDE: 44° 03' 47.48952" N LONGITUDE: 121° 01' 37.30908" W</p> <p>----- EC CARTESIAN ----- X: -2366562.236 METERS Y: -3934415.386 METERS Z: +4413842.595 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1010.726 METERS NGVD 29 : 1030.162 METERS NAVD 88 : 1031.309 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 266358.002±.004 METERS EAST: 1457773.371±.004 METERS</p> <p>SCALE FACTOR: 1.000016675 CONVERGENCE: - 0° 21' 38.04 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - T 17 S R 14 S 27|26 34|35 1988 LS 1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 13.7 MILES EASTERLY OF BEND.

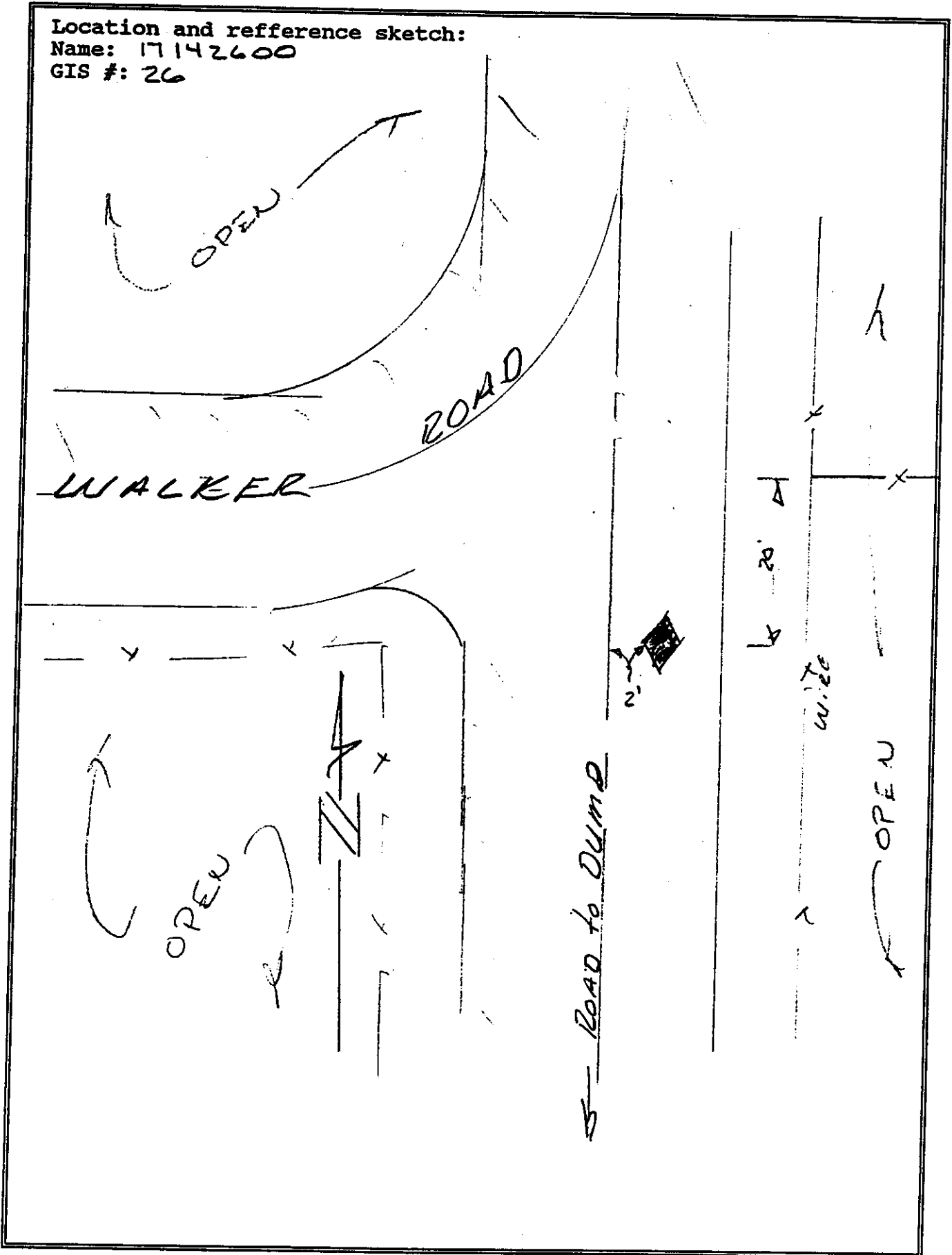
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.25 MI., TURN LEFT ON POWELL BUTTE HWY & PROCEED NORTEAST FOR 0.6 MI., TURN RIGHT ON ALFALFA MARKET RD. & PROCEED EASTERLY FOR 9.40 MILES, TURN RIGHT ON RIGHT ON WALKER ROAD AND PROCEED SOUTH FOR 1.0 MILES TO THE STATION IN A WATER VALVE BOX IN THE CENTER OF THE PAVED ROAD.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK ON AN IRON PIPE IN A MASS OF CONCRETE 1.2 FEET BELOW ROAD SURFACE IN A WATER VALVE BOX. 9 FEET WEST OF THE EAST EDGE OF PAVEMENT.

Location and reference sketch:

Name: 17142600

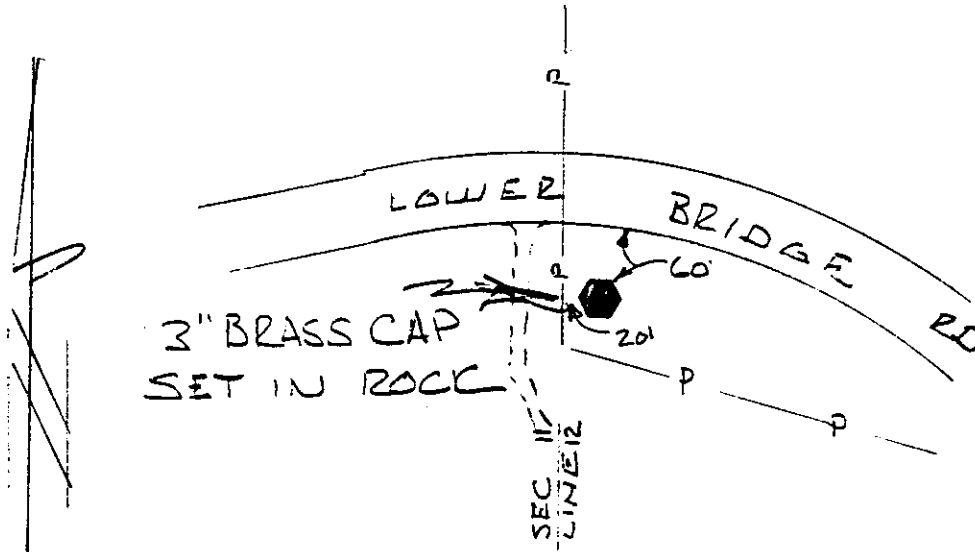
GIS #: 26



CONTROL MARK DATA

NAME OF MARK: 2711 PP&L COUNTY: DESCHUTES
 MARK SET BY: P. P. & L. STATE: OREGON
 DATE OF MARK: 1929 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 14 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

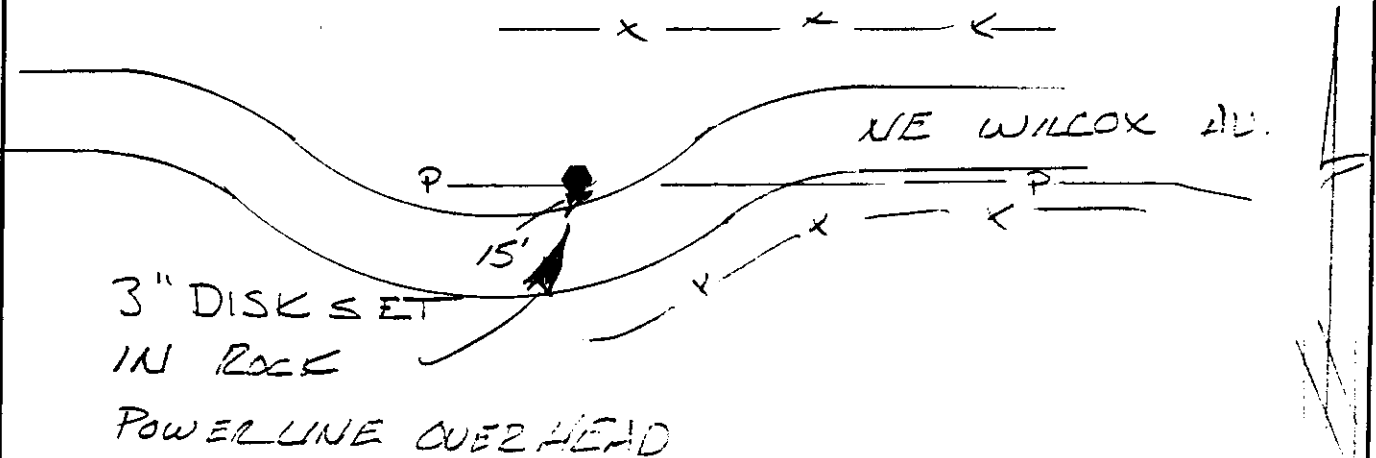
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 2711 PP&L</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°21'54.055874"	ONE SIGMA ERROR
Longitude:	121°15'02.780596"	
Northing:	497658.3367	0.008
Easting:	3308516.8653	0.008
Convergence:	+ 0°01'21.9630"	
Scale Factor:	1.000160082827	
Ellipsoid Height:	2644.3894	0.012
Orthometric Height:	2710.105	FIXED
Geoid Height:	-65.7156	

CONTROL MARK DATA

NAME OF MARK: 2906 ORE COUNTY: DESCHUTES
 MARK SET BY: GEOLOGICAL SURVEY STATE: OREGON
 DATE OF MARK: 19?? COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

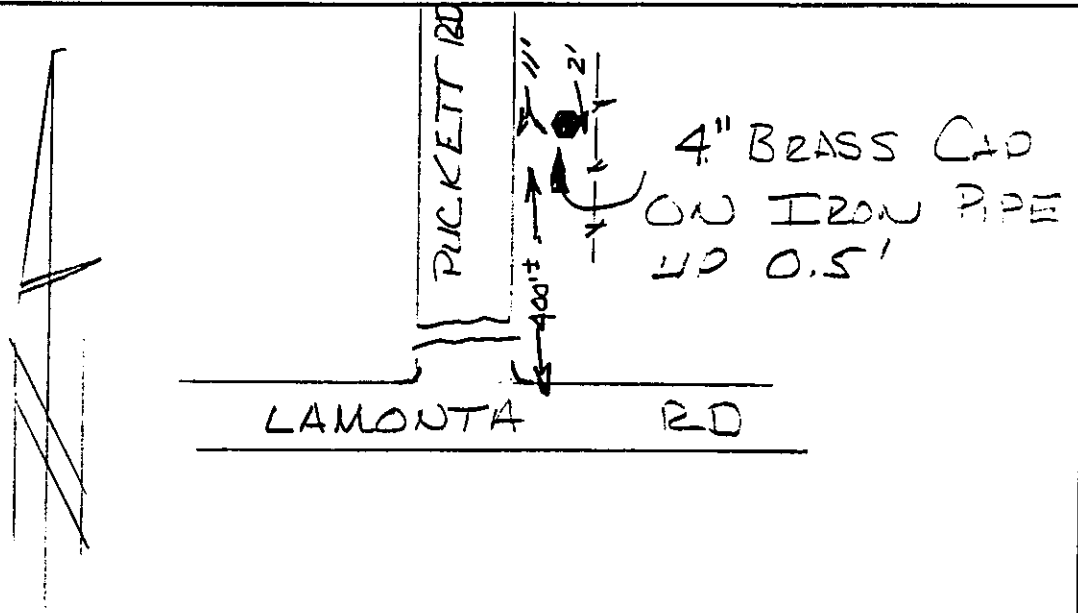
GEODETIC AND MAPPING COORDINATES

<u>MARK: 2906 ORE</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°21'21.820622"</u>	ONE SIGMA ERROR
Longitude:	<u>121°07'26.761093"</u>	
Northing:	<u>494432.1927</u>	<u>0.014</u>
Easting:	<u>3341656.4337</u>	<u>0.013</u>
Convergence:	<u>+ 0°06'40.7606"</u>	
Scale Factor:	<u>1.000161981427</u>	
Ellipsoid Height:	<u>2840.371</u>	<u>0.021</u>
Orthometric Height:	<u>2905.2596</u>	<u>0.060</u>
Geoid Height:	<u>-64.8886</u>	

CONTROL MARK DATA

NAME OF MARK: 2971 RESET COUNTY: CROOK
MARK SET BY: U.S. C. & G.S. STATE: OREGON
DATE OF MARK: 1908 COUNTRY: U.S.A.
LOCATION: SECTION 2 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

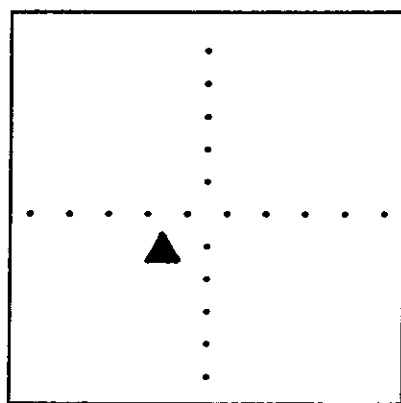
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

MARK: 2971 RESET HORIZONTAL ORDER: FIRST

Latitude:	44°22'43.406995"	ONE SIGMA ERROR
Longitude:	120°54'22.978224"	
Northing:	502881.931	0.017
Easting:	3398574.7879	0.016
Convergence:	+ 0°15'49.1054"	
Scale Factor:	1.000171095475	
Ellipsoid Height:	2904.634	0.024
Orthometric Height:	2968.1763	0.078
Geoid Height:	-63.5423	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: 6-DPB-1978 GIS # 0071 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 20 S.- R. 16 E., SEC.31</p>	<p>LATITUDE: 43° 42' 29.47485" N LONGITUDE: 120° 50' 48.40016" W</p> <p align="center">----- EC CARTESIAN -----</p> <p>X: -2368371.571 METERS Y: -3965615.483 METERS Z: +4385737.858 METERS</p> <p align="center">----- HEIGHT -----</p> <p>ELLIPSOIDAL: 1485.908 METERS NGVD 29 : 1504.749 METERS NAVD 88 : 1505.964 METERS</p> <p align="center">---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 226839.493±.011 METERS EAST: 1472052.100±.008 METERS</p> <p>SCALE FACTOR: 0.999938926 CONVERGENCE: - 0° 14' 14.09 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

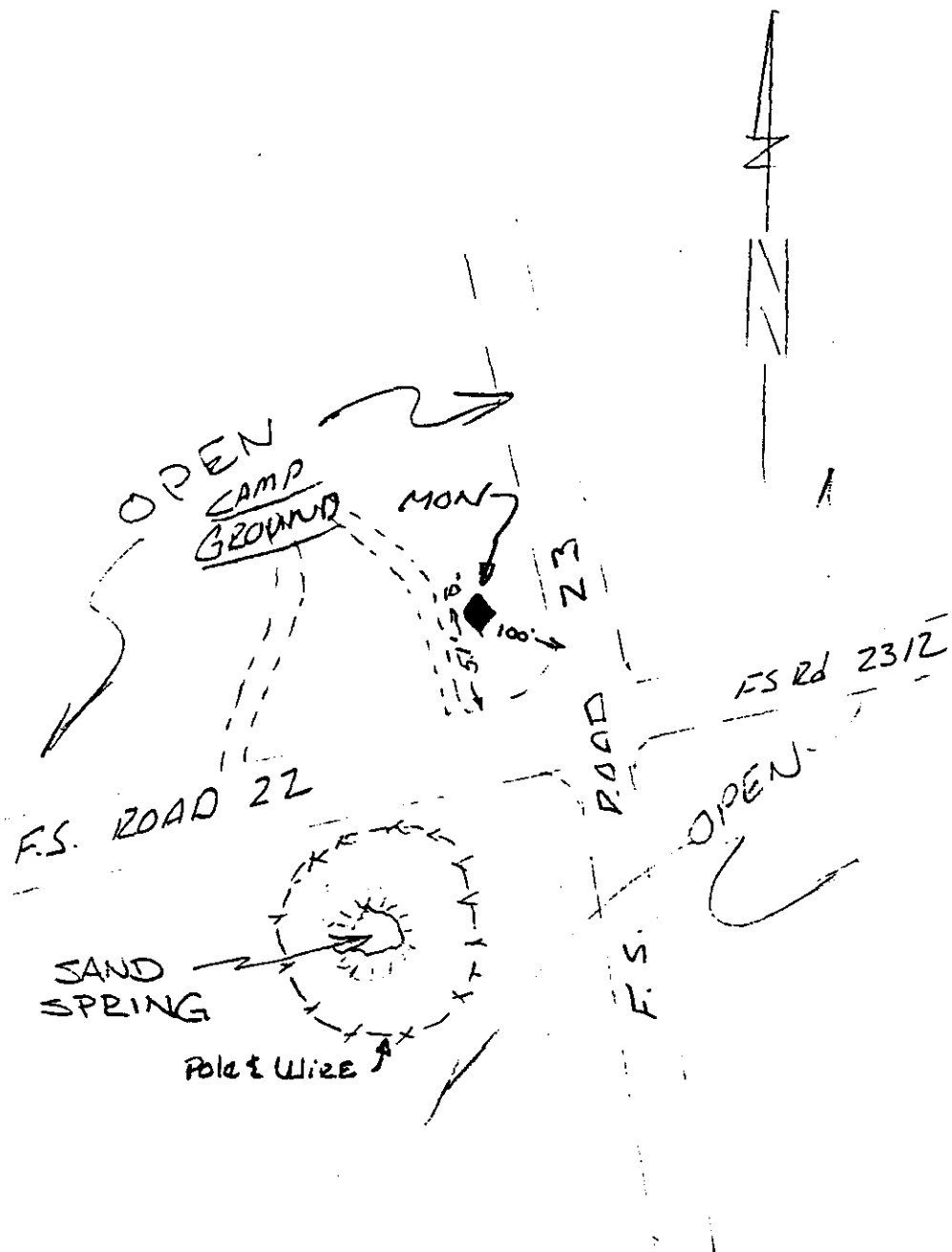
SURFACE MARKER:
MARK IS STAMPED - 6 DPB 1978 4937
AGENCY INSCRIPTION - US DEPT INTERIOR GEOLOGICAL SURVEY
THE STATION IS LOCATED ABOUT 11 MI. SOUTH OF MILLICAN.

TO REACH THE STATION FROM MILLICAN, GO WESTERLY ON HWY 20 FOR 3.7 MI., TURN LEFT ON SPENCER WELLS ROAD (FOREST ROAD 23) PROCEED SOUTH & SOUTHEASTERLY FOR 18.9 MI. (AT 5.9 MI. RD 25), (AT 18.9 MI. BPA POWER LINE & SUBSTATION) TO THE INTERSECTION WITH FOREST 22, TURN RIGHT TO THE STATION ON THE RIGHT.

NOTE:ELEV 4937.183 FROM FIELD BOOK SUMMARY MAY NOT BE ADJUSTED.

THE STATION MARK IS A 3 1/2 IN. BRASS CAP ON A COPER-COATED ROD IN A 8 IN. PVC PIPE, CAP IS ABOUT 2 IN ABOVE GROUND LEVEL. N 80 W 66 FEET FROM RD. INTERSECTION. 10 FEET EAST OF DIRT ROAD. 1 FEET SOUTH OF A WITNES POST.

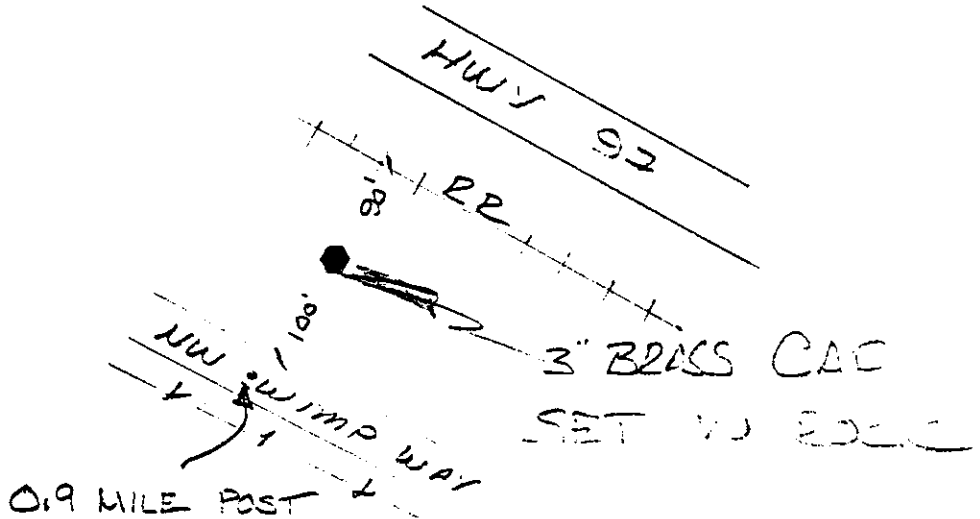
Location and reference sketch:
Name: 6 DPB 1978
GIS #: 71



CONTROL MARK DATA

NAME OF MARK: B-366 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1942 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

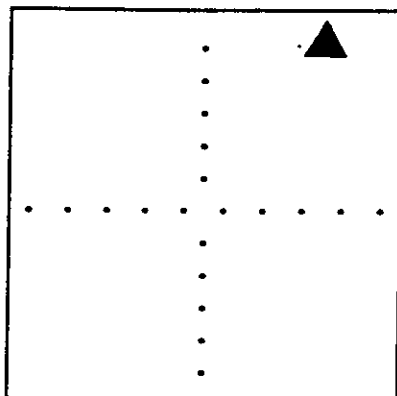
<u>MARK: B-366</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°23'02.731187"	ONE SIGMA ERROR
Longitude:	121°11'05.834702"	
Northing:	504627.8293	0.010
Easting:	3325724.4021	0.010
Convergence:	+ 0°04'07.7263"	
Scale Factor:	1.000160755616	
Ellipsoid Height:	2694.0661	0.014
Orthometric Height:	2759.229	FIXED
Geoid Height:	-65.1629	

DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION

NAME: B004 ODOT 1990
GIS # NONE
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 17 S.- R. 12 E., SEC.32

LATITUDE: 44° 03' 57.08173" N
LONGITUDE: 121° 18' 23.36057" W

----- EC CARTESIAN -----

X: -2385645.695 METERS
Y: -3922696.988 METERS
Z: +4414108.786 METERS

----- HEIGHT -----

ELLIPSOIDAL: 1087.536 METERS
NGVD 29 : 1107.173 METERS
NAVD 88 : 1108.360 METERS

---- SPC -- OREGON SOUTH ----

NORTH: 266832.319±.004 METERS
EAST: 1435386.050±.003 METERS

SCALE FACTOR: 1.000017405
CONVERGENCE: - 0° 33' 06.33 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:

MARK IS STAMPED - B004 1990
AGENCY INSCRIPTION - OREGON HIGHWAY DEPARTMENT
THE STATION IS LOCATED ABOUT (IN BEND)

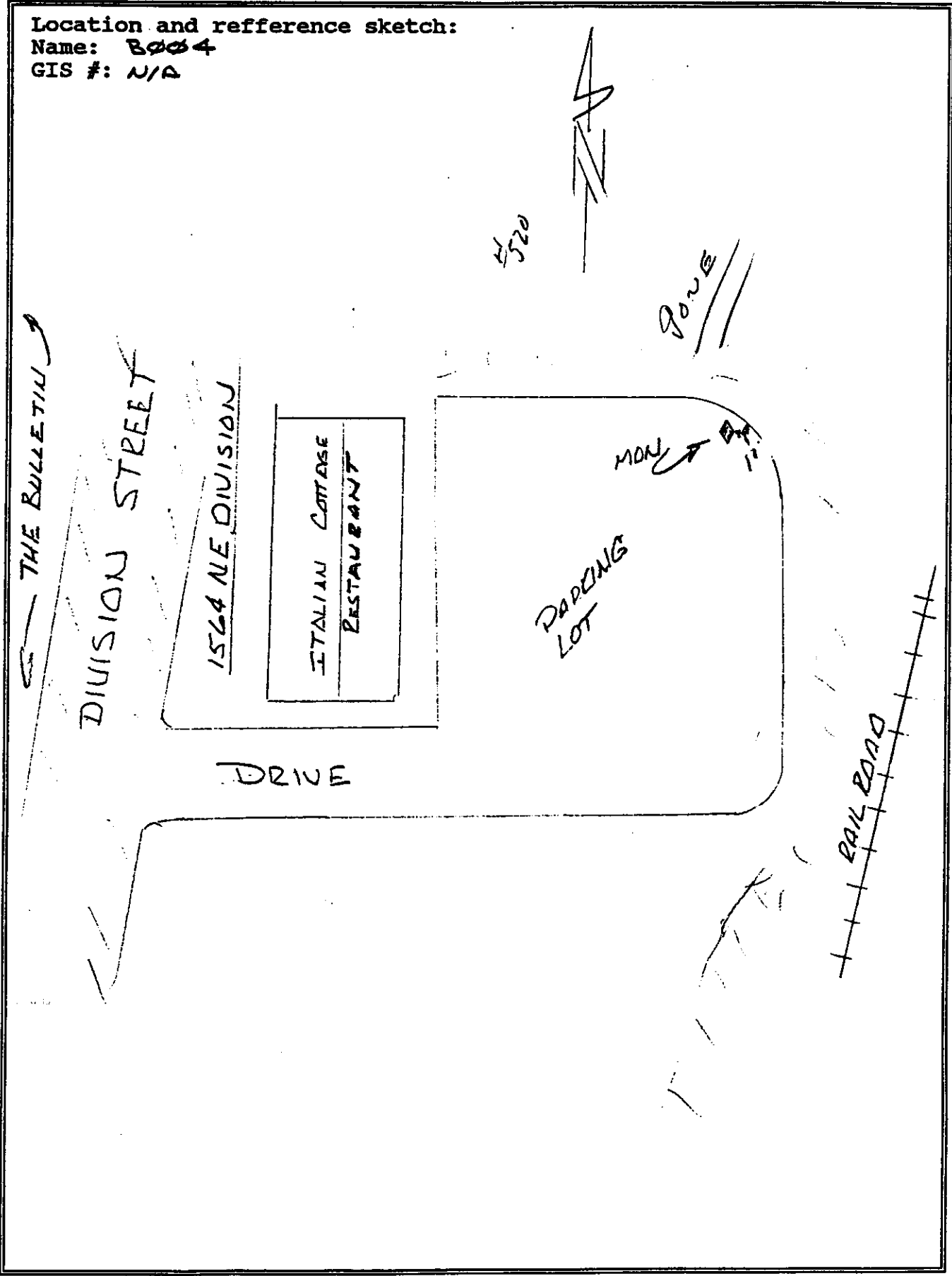
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 1.45 MI., TURN LEFT ON REVER STREET AND PROCEED WEST FOR 0.44 MI. TO DIVISION STREET AND TURN LEFT AND PROCEED SOUTH FOR 0.45 MI AND TURN LEFT AT DRIVE WAY TO PARKING LOT IN BACK OF ITALIAN COTTAGE RESTAURANT

THE STATION MARK IS A STANDARD HIGHWAY BRASS CAP IN CONCRETE IN A 6 IN. DIA. PIPE MON. BOX 1.0 FEET BELOW ASPHALT SURFACE IN NORTHEAST CORNER OF THE PARKING LOT.
134.5 FEET EAST OF NORTHEAST OF RESTAURANT
53.1 FEET SOUTH OF YARD LIGHT POLE

Location and reference sketch:

Name: B004

GIS #: N/A



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

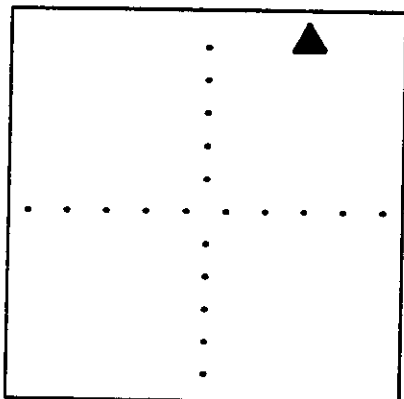
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: BEAL RM NO 1
GIS # 0050
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 23 S.- R. 10 E., SEC.05

LATITUDE: 43° 36' 58.73302" N
LONGITUDE: 121° 32' 51.29080" W

----- EC CARTESIAN -----
X: -2420308.380 METERS
Y: -3942232.045 METERS
Z: +4378210.384 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1280.984 METERS
NGVD 29 : 1300.638 METERS
NAVD 88 : 1301.868 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 217103.584±.007 METERS
EAST: 1415446.504±.005 METERS

SCALE FACTOR: 0.999925103
CONVERGENCE: - 0° 43' 00.12 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:

MARK IS STAMPED - BEAL NO 1 1971
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 4 MILES SOUTHWEST OF LIPINE

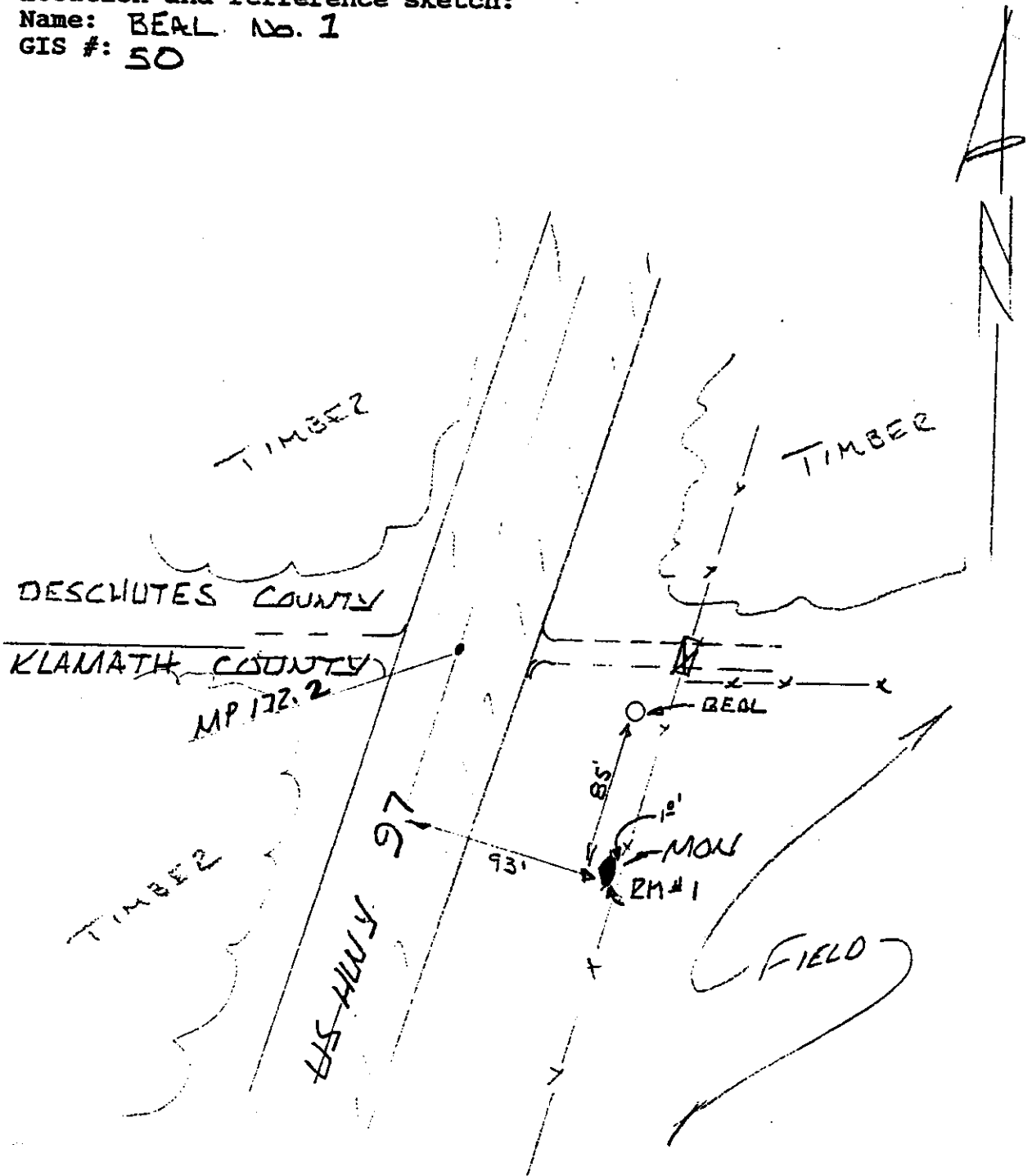
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED SOUTHERLY ON HWY 97 FOR 4.2 TO THE COUNNTY LINE AND TURN LEFT ON A DIRT DRIVE WAY AND PROCEED 60 FEET, GO SOUTHERLY ALONG FENCE FOR 100 FEET TO THE STATION.

THE STATION MARK IS A STANDARD NGS REFFERANCE DISK IN A MASS OF CONCRETE
1.0 FEET WESTERLY OF A WIRE FENCE
75 FEET EASTERLY OR THE EAST EDGE OF HWY 97
89 FEET SOUTHERLY OF STATION BEAL

Location and reference sketch:

Name: BEAL No. 1

GIS #: 50



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

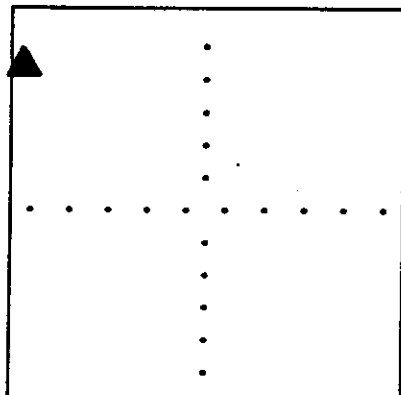
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: BEND AIRPORT
GIS # 0046
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 17 S.- R. 13 E., SEC.20

LATITUDE: 44° 05' 37.42982" N
LONGITUDE: 121° 12' 11.98308" W

----- EC CARTESIAN -----
X: -2377439.623 METERS
Y: -3925104.769 METERS
Z: +4416291.149 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1025.760 METERS
NGVD 29 : 1045.411 METERS
NAVD 88 : 1046.556 METERS
 ---- SPC -- OREGON SOUTH ----
NORTH: 269855.013±.003 METERS
EAST: 1443676.815±.003 METERS

SCALE FACTOR: 1.000025174
CONVERGENCE: - 0° 28' 52.25 "

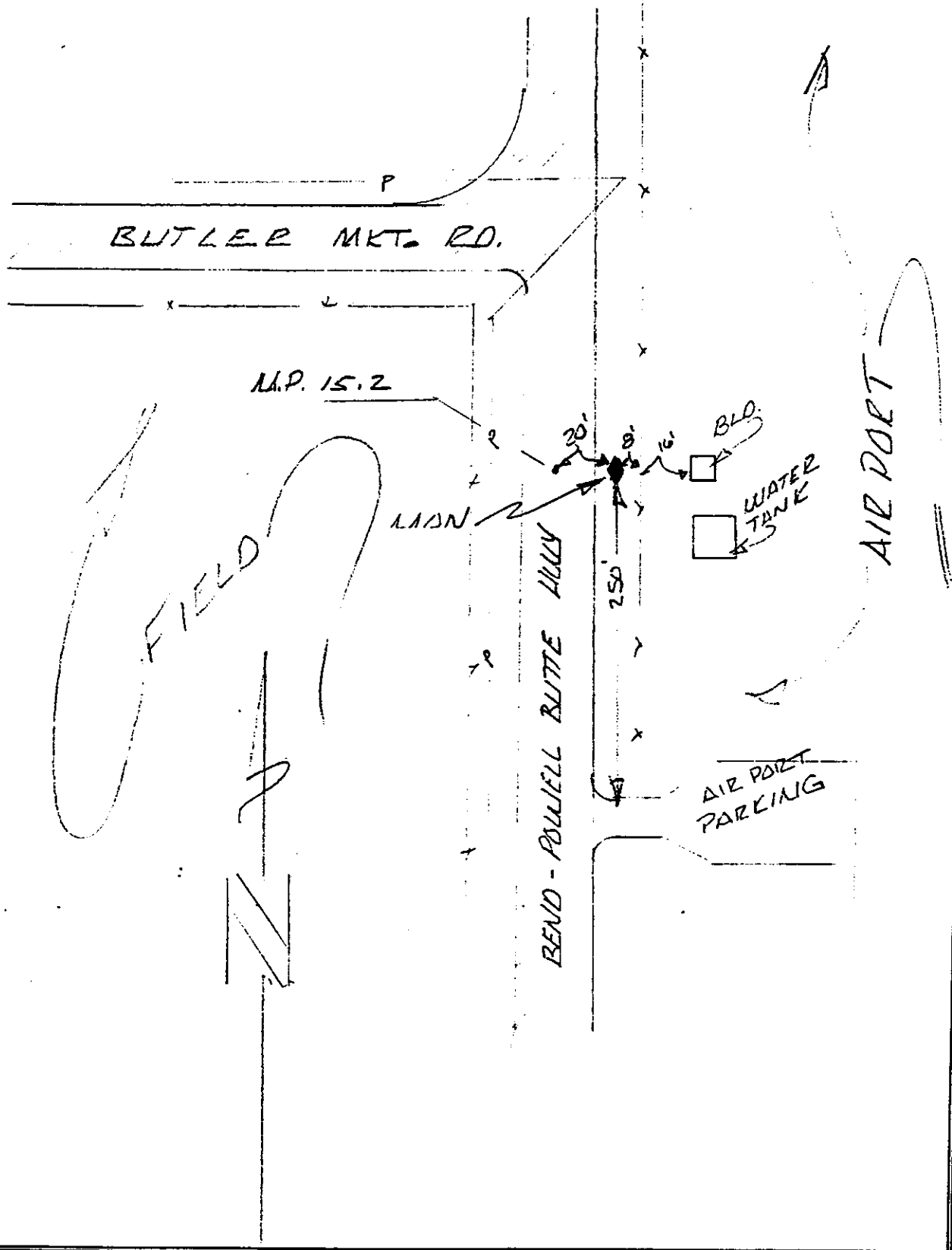
The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - BEND AIRPORT 1978
AGENCY INSCRIPTION - DESCHUTES COUNTY CONTROL SURVEY
THE STATION IS LOCATED ABOUT 5.5 MILES EASTERLY OF BEND.

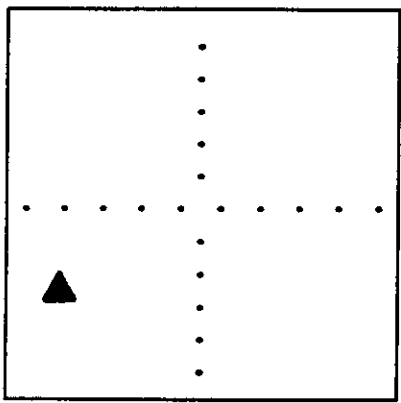
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.35 MI. TO THE JUNCTION WITH THE POWELL BUTTE COUNTY HWY., TURN LEFT AND PROCEED ON SAID HWY FOR 2.86 MILES TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 IN. BRASS CAP GROUTED IN A 8 IN. PIPE
IN A MASS OF CONCRETE 2 ABOVE GROUND LEVEL.
9.5 FEET EAST OF A WIRE FENCE
21 FEET WEST FO THE CENTER LINE OF THE HWY.
1 FEET SOUTH OF A WITNES POST
325 FEET SOUTH OF THE CENTER LINE OF BUTLER ROAD.

Location and reference sketch:
Name: BEND AIRPORT 1978
GIS #: 46



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: BNRR STA 369+48.3 1984 GIS # 0054 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 20 S.- R. 11 E., SEC.16</p>	<p>LATITUDE: 43° 50' 14.56218" N LONGITUDE: 121° 25' 23.65435" W</p> <p>----- EC CARTESIAN ----- X: -2402887.436 METERS Y: -3932973.849 METERS Z: +4395950.988 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1263.217 METERS NGVD 29 : 1282.530 METERS NAVD 88 : 1283.743 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 241544.293±.005 METERS EAST: 1425752.964±.005 METERS</p> <p>SCALE FACTOR: 0.999962739 CONVERGENCE: - 0° 37' 53.87 "</p>

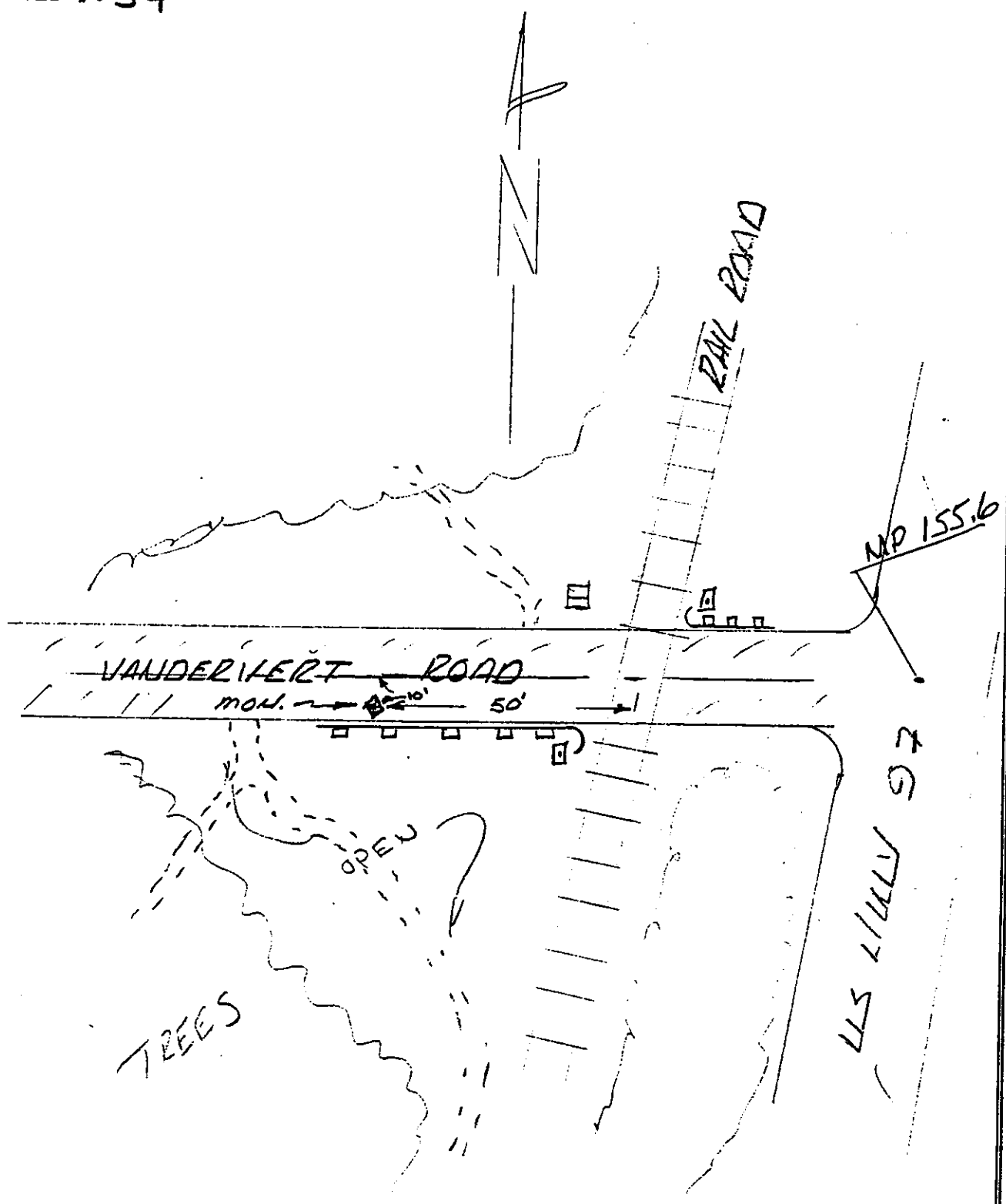
The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - BNRR STA 369+48.3 1984
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 12 MILES NORTHERLY OF LIPINE

TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 12.5 MI TO INTERSECTION WITH VANDERVERT ROAD, TURN LEFT ON VANDERVERT ROAD AND PROCEED WEST FOR 300 FEET TO THE RAIL ROAD CROSSING AND THE STATION 20 FEET AHEAD AND ON THE LEFT.

THE STATION MARK IS A 2 1/2 IN. DISK IN A 7 IN. DIA. MOUNUMENT BOX IN THE EAST BOUND LANE OF VANDERVERT ROAD
DISK IS 0.3 FEET BELOW ROAD SURFACE
2 FEET NORTH OF SOUTH EDGE OF PAVEMENT
48 FEET WEST OF CENTER OF RAIL ROAD
5 FEET NORTH OF A WITNES POST

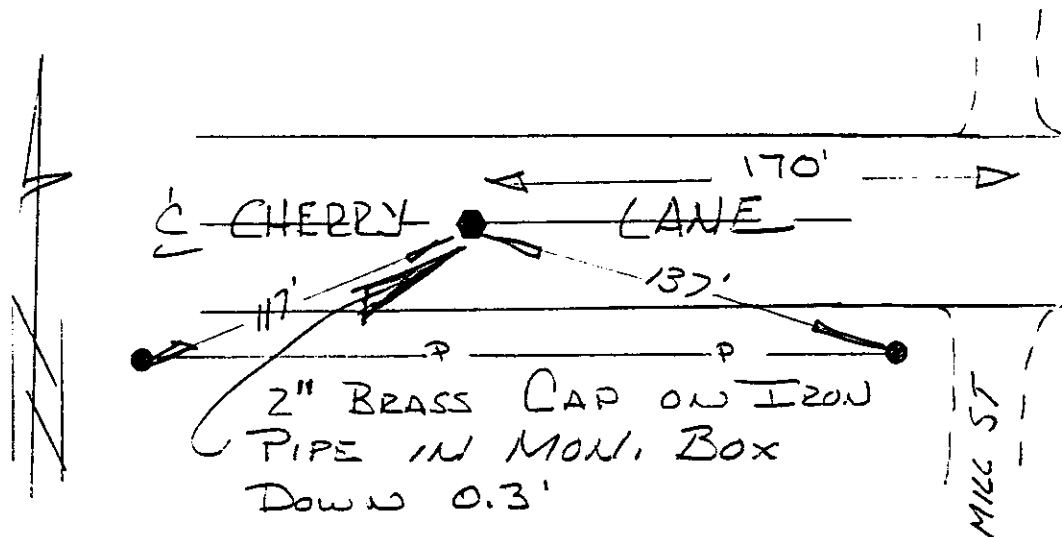
Location and reference sketch:
Name: BNRR STA 369+48.3 1984
GIS #: 54



CONTROL MARK DATA

NAME OF MARK: 10132604 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 10 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 911162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

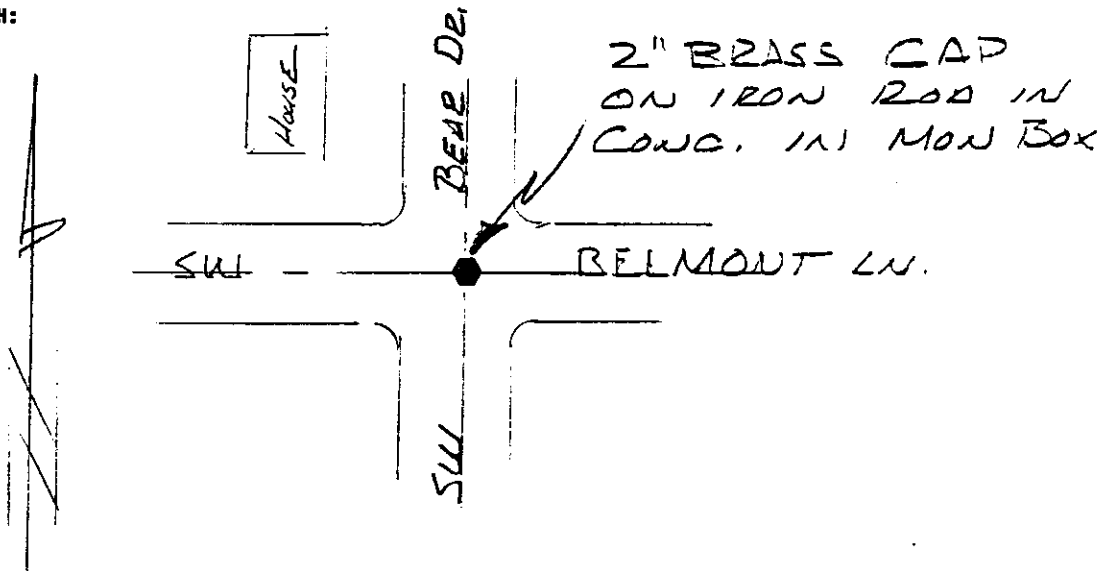
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 10132604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°39'52.540834"	ONE
Longitude:	121°08'36.333219"	SIGMA
Northing:	606924.2772	ERROR
Easting:	3336408.1459	0.013
Convergence:	+ 0°05'54.0556"	0.013
Scale Factor:	1.000161513489	
Ellipsoid Height:	2377.3272	0.019
Orthometric Height:	2443.8255	FIXED
Geoid Height:	-66.4983	

CONTROL MARK DATA

NAME OF MARK: 11131004 COUNTY: JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1985 COUNTRY: U.S.A.
LOCATION: SECTION 10 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: MF# 883296

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

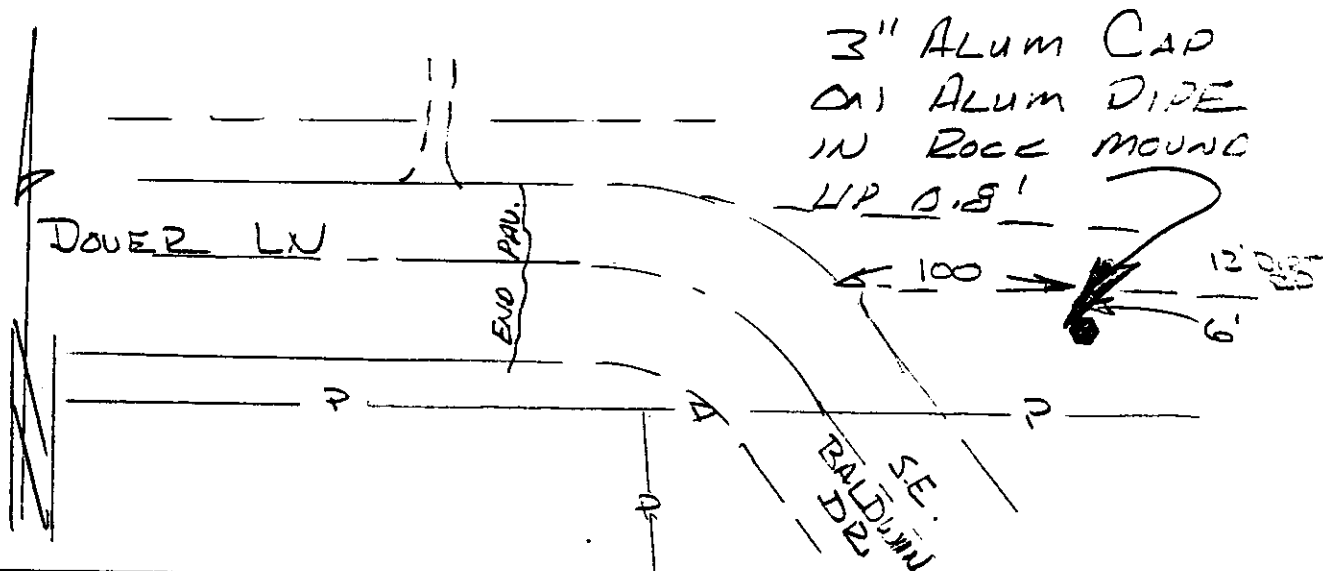
MARK: 11131004 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°37'17.697734"</u>	ONE
Longitude:	<u>121°09'35.573364"</u>	SIGMA
Northing:	<u>591233.429</u>	ERROR
Easting:	<u>3332149.6484</u>	0.010
Convergence:	<u>+ 0°05'12.1749"</u>	0.010
Scale Factor:	<u>1.000161180155</u>	
Ellipsoid Height:	<u>2420.938</u>	0.017
Orthometric Height:	<u>2487.2089</u>	0.052
Geoid Height:	<u>-66.2709</u>	

CONTROL MARK DATA

NAME OF MARK: 11141900 COUNTY: JEFFERSON
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1984 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 11 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 151334

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

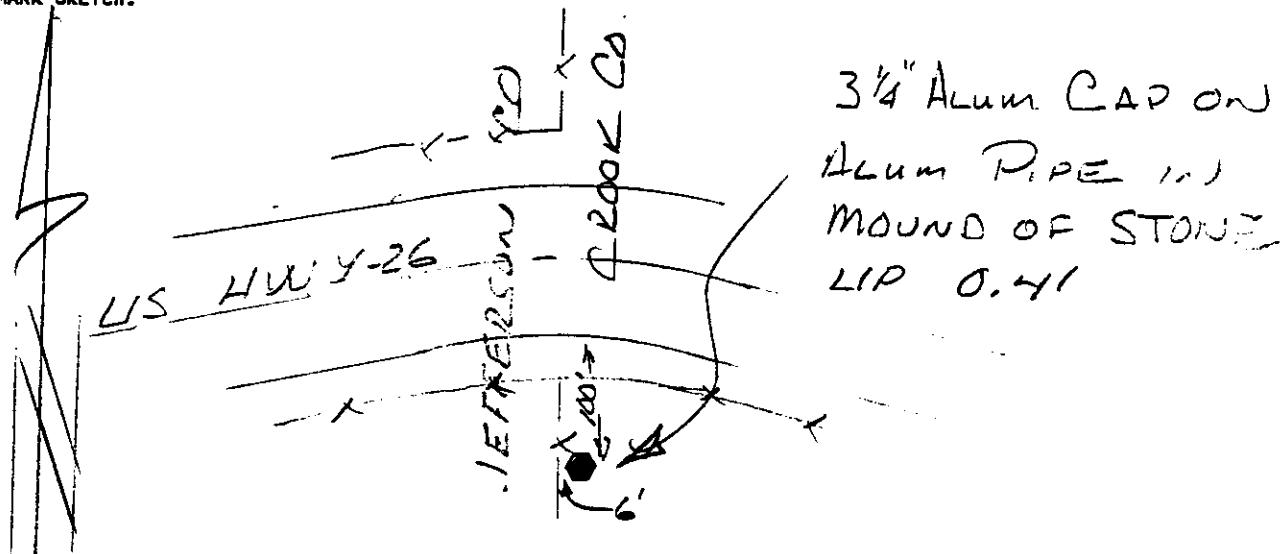
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11141900</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°35'33.205739"	ONE SIGMA ERROR
Longitude:	121°06'33.342116"	
Northing:	580673.6294	0.012
Easting:	3345354.7665	0.012
Convergence:	+ 0°07'19.9525"	
Scale Factor:	1.000162348744	
Ellipsoid Height:	2414.6393	0.020
Orthometric Height:	2480.2048	0.063
Geoid Height:	-65.5655	

CONTROL MARK DATA

NAME OF MARK: 13153040 COUNTY: CROOK
MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
DATE OF MARK: 1983 COUNTRY: U.S.A.
LOCATION: SECTION 30 TOWNSHIP 13 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OLCM T-1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

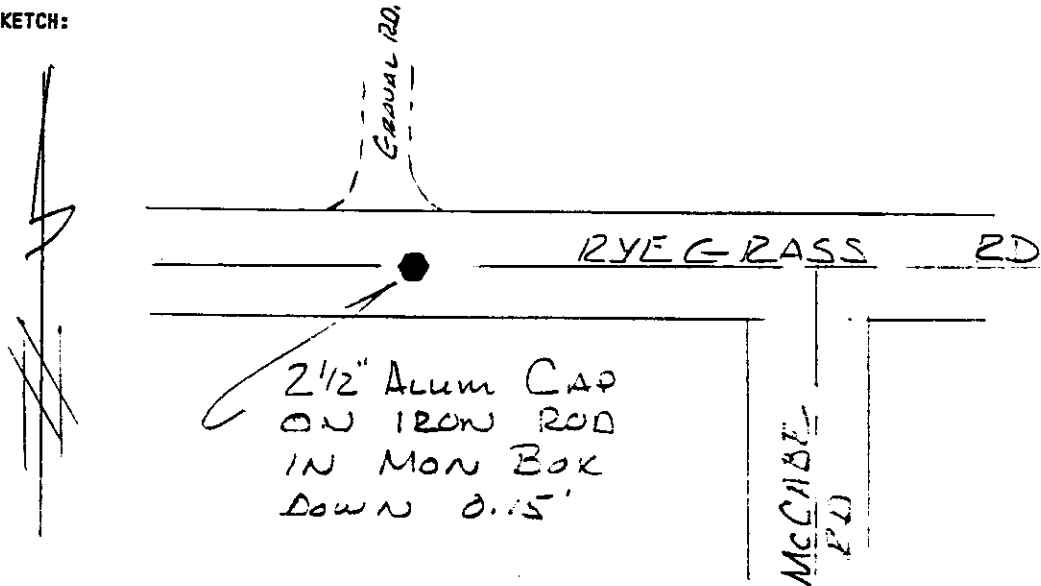
MARK: 13153040 HORIZONTAL ORDER: FIRST

Latitude:	44°24'42.348633"	ONE SIGMA ERROR
Longitude:	120°59'18.614891"	
Northing:	514840.8574	0.014
Easting:	3377056.2079	0.014
Convergence:	+ 0°12'22.7713"	
Scale Factor:	1.000166779924	
Ellipsoid Height:	3314.4125	0.021
Orthometric Height:	3378.1201	FIXED
Geoid Height:	-63.7076	

CONTROL MARK DATA

NAME OF MARK: 13153300 COUNTY: CROOK
MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
DATE OF MARK: 1989 COUNTRY: U.S.A.
LOCATION: SECTION 33 TOWNSHIP 13 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OLCM Z-9

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

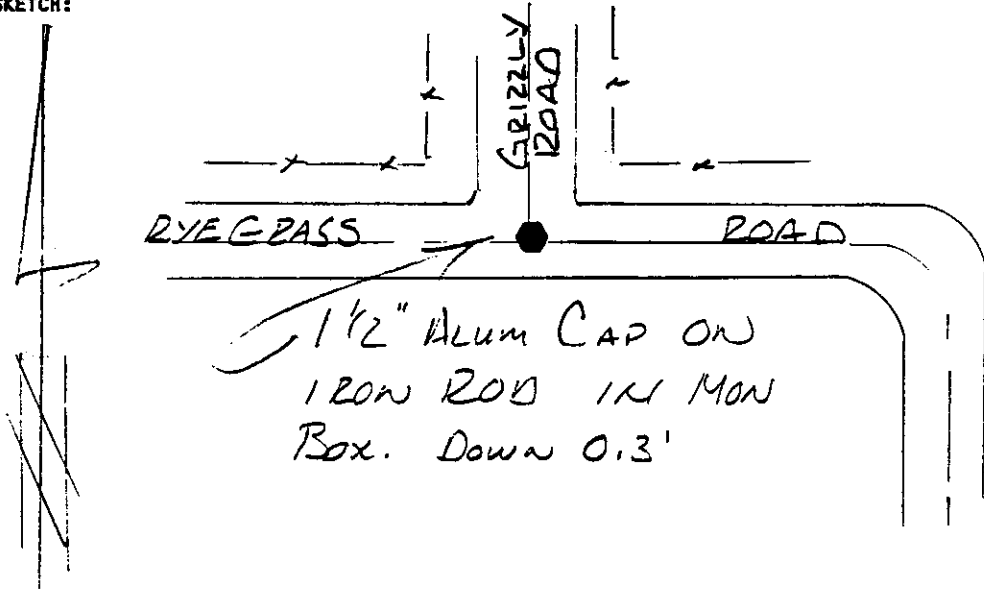
MARK: 13153300 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°23'24.919678"</u>	ONE
Longitude:	<u>120°56'52.490750"</u>	SIGMA
Northing:	<u>507039.3052</u>	ERROR
Easting:	<u>3387696.8977</u>	0.015
Convergence:	<u>+ 0°14'04.7082"</u>	0.015
Scale Factor:	<u>1.000168781745</u>	
Ellipsoid Height:	<u>2960.685</u>	0.022
Orthometric Height:	<u>3024.3952</u>	0.068
Geoid Height:	<u>-63.7101</u>	

CONTROL MARK DATA

NAME OF MARK: 13153500 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 13 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM Z-17

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

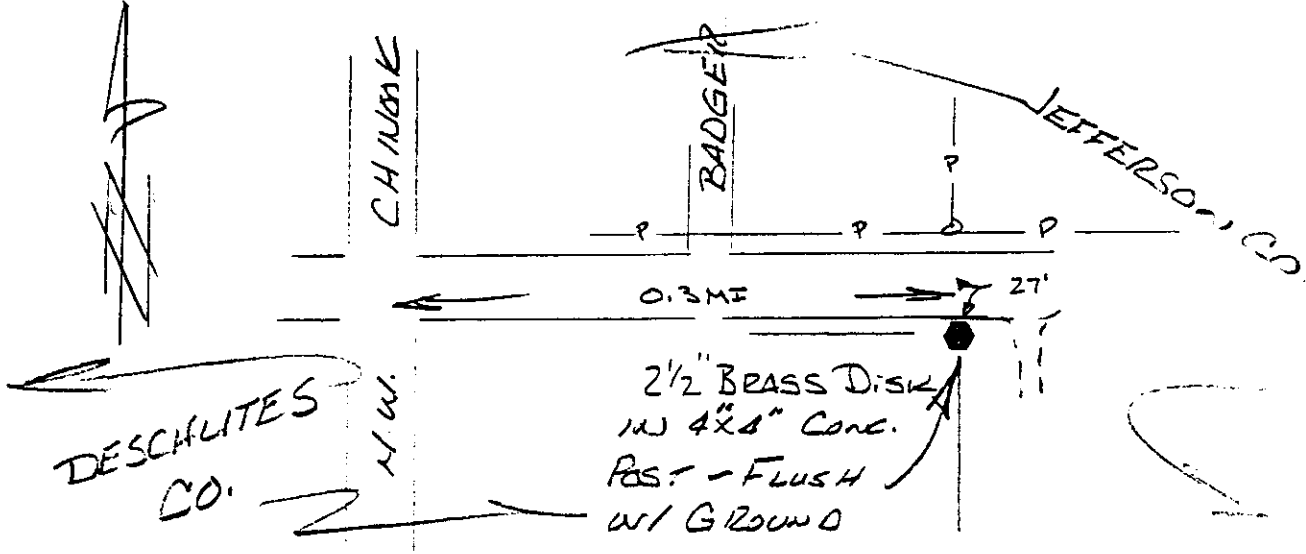
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 13153500</u>	HORIZONTAL ORDER: FIRST
Latitude: 44°23'25.312202"	ONE SIGMA ERROR
Longitude: 120°54'26.743795"	
Northing: 507125.027	0.019
Easting: 3398281.7768	0.019
Convergence: + 0°15'46.6682"	
Scale Factor: 1.000171029581	
Ellipsoid Height: 2956.6276	0.027
Orthometric Height: 3020.0893	0.086
Geoid Height: -63.4616	

CONTROL MARK DATA

NAME OF MARK: 14120188 COUNTY: DESCHUTES
 MARK SET BY: PE 5792 ARNOLD KEGEL STATE: OREGON
 DATE OF MARK: 1973 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 14 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 06487

MARK SKETCH:



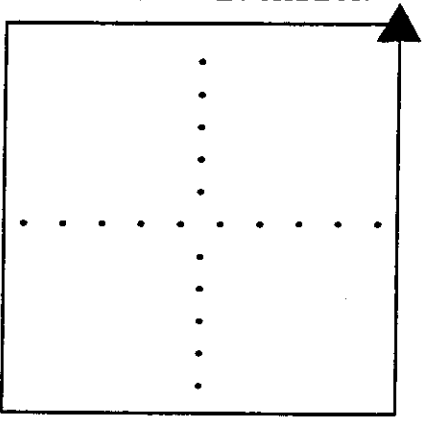
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK: 14120188</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°23'34.795290"	ONE SIGMA ERROR
Longitude:	121°13'45.481150"	FIXED
Northing:	507864.6427	FIXED
Easting:	3314126.5176	FIXED
Convergence:	+ 0°02'16.0807"	
Scale Factor:	1.000160227866	
Ellipsoid Height:	2699.918	FIXED
Orthometric Height:	2765.4308	0.059
Geoid Height:	-65.5128	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: 14120188 GIS # 0020 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 14 S.- R. 12 E., SEC. 1</p>	<p>LATITUDE: 44° 23' 34.79529" N LONGITUDE: 121° 13' 45.48115" W</p> <p>----- EC CARTESIAN ----- X: -2367112.424 METERS Y: -3904060.079 METERS Z: +4439975.503 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 822.935 METERS NGVD 29 : 842.935 METERS NAVD 88 : 844.044 METERS</p> <p>---- SPC -- OREGON SOUTH ---- NORTH: 303127.721±.003 METERS EAST: 1441886.632±.003 METERS</p> <p>SCALE FACTOR: 1.000123715 CONVERGENCE: - 0° 29' 56.22 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
 MARK IS STAMPED - T13S R12E 36/1\31 ARK 5792 RFA
 AGENCY INSCRIPTION - NONE
 THE STATION IS LOCATED ABOUT 3.8 MILES NORTHWEST OF TERREBONNE

TO REACH THE STATION FROM TERREBONNE, START AT THE INTERSECTION OF US HWY 97 AND SMITHROCK WAY IN TERREBONNE, PROCEED NORTH ON HWY 97 0.55 MI., TURN LEFT ON LOWER BRIDGE COUNTY ROAD AND PROCEED NORTHWESTERLY 2.2 MI, TURN RIGHT ON N.W. 43 ST. AND PROCEED NOTRH 1.8 MI., TURN LEFT ON N.W. CHINOOK DR. AND PROCEED NORTHWESTERLY 0.9 MI., TURN RIGHT ON ANTELOPE DR. AND PROCEED EAST 0.25 MILES TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 2 1/2 IN. BRASS DISK SET IN A 4 IN.X 4 IN. X 20 IN. CONCREET POST FLUSH WITH GROUND LEVEL.
 18 FEET SOUTH OF A SOUTH EDGE OF ANTELOPE DR.
 54 FEET SOUTH OF PP&L POWER POLE #310140.
 SET BY ARNOLD KEGEL IN 1973, SE COR. SEC 36 T13S R12E WM.

Location and reference sketch:

Name: 14120188

GIS #: 20

CHINOOK DRIVE

JEFFERSON COUNTY

BADGER

ANTELOPE DRIVE

NULL.

0.3 MI.

MON

DESCHUTES COUNTY

27'

18' GRAVEL

DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

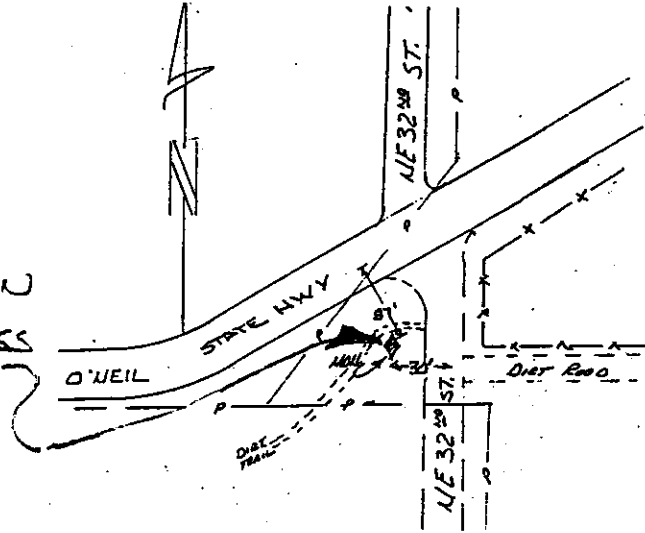
(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: 14132500 COUNTY: DESCHUTES
 MARK SET BY: LS 0804 C. H. KETCHAM STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0030

MARK SKETCH:

3 1/2" ALUM CAP ON
 IRON ROD IN A MASS
 OF CONCR. UP. 0.3'



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

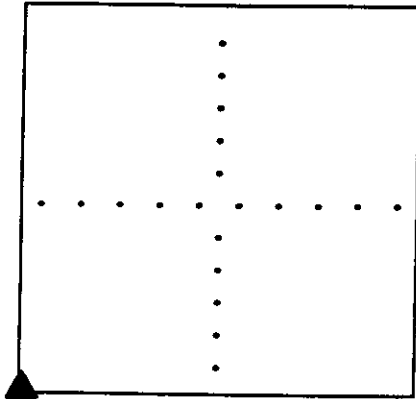
<u>MARK: 14132500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°19'12.052420"</u>	ONE SIGMA ERROR
Longitude:	<u>121°07'42.323900"</u>	FIXED
Northing:	<u>481286.6151</u>	FIXED
Easting:	<u>3340550.3429</u>	FIXED
Convergence:	<u>+ 0°06'29.6294"</u>	
Scale Factor:	<u>1.000161877615</u>	
Ellipsoid Height:	<u>2890.8465</u>	FIXED
Orthometric Height:	<u>2955.8104</u>	FIXED
Geoid Height:	<u>-64.9639</u>	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: 14132500
GIS # 0028
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 14 S.- R. 13 E., SEC.25

LATITUDE: 44° 19' 12.05242" N
LONGITUDE: 121° 07' 42.32390" W

----- EC CARTESIAN -----

X: -2363188.095 METERS
Y: -3913111.349 METERS
Z: +4434216.778 METERS

----- HEIGHT -----

ELLIPSOIDAL: 881.130 METERS
NGVD 29 : 900.930 METERS
NAVD 88 : 902.032 METERS
----- SPC -- OREGON SOUTH -----
NORTH: 294951.958±.004 METERS
EAST: 1449863.865±.004 METERS

SCALE FACTOR: 1.000097128
CONVERGENCE: - 0° 25' 47.76 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:

MARK IS STAMPED - T 14 S R 13 E 26|25 35|36 LS 1031 1988
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 3.9 MILE NORTHEAST OF REDMOND.

TO REACH THE STATION FROM REDMOND, START AT THE INTERSECTION OF US HWY 97 (5th ST.) & OR.HWY 126 (EVERGREEN AV.), PROCEED NORTH ON HWY 97 FOR 2.77 MI., TURN RIGHT O'NEIL HWY. AND PROCEED EASTERLY FOR 2.61 MILES, TURN RIGHT ON NE 33rd STREET AND PROCEED SOUTH FOR 100 FEET TO THE STATION ON THE RIGHT.

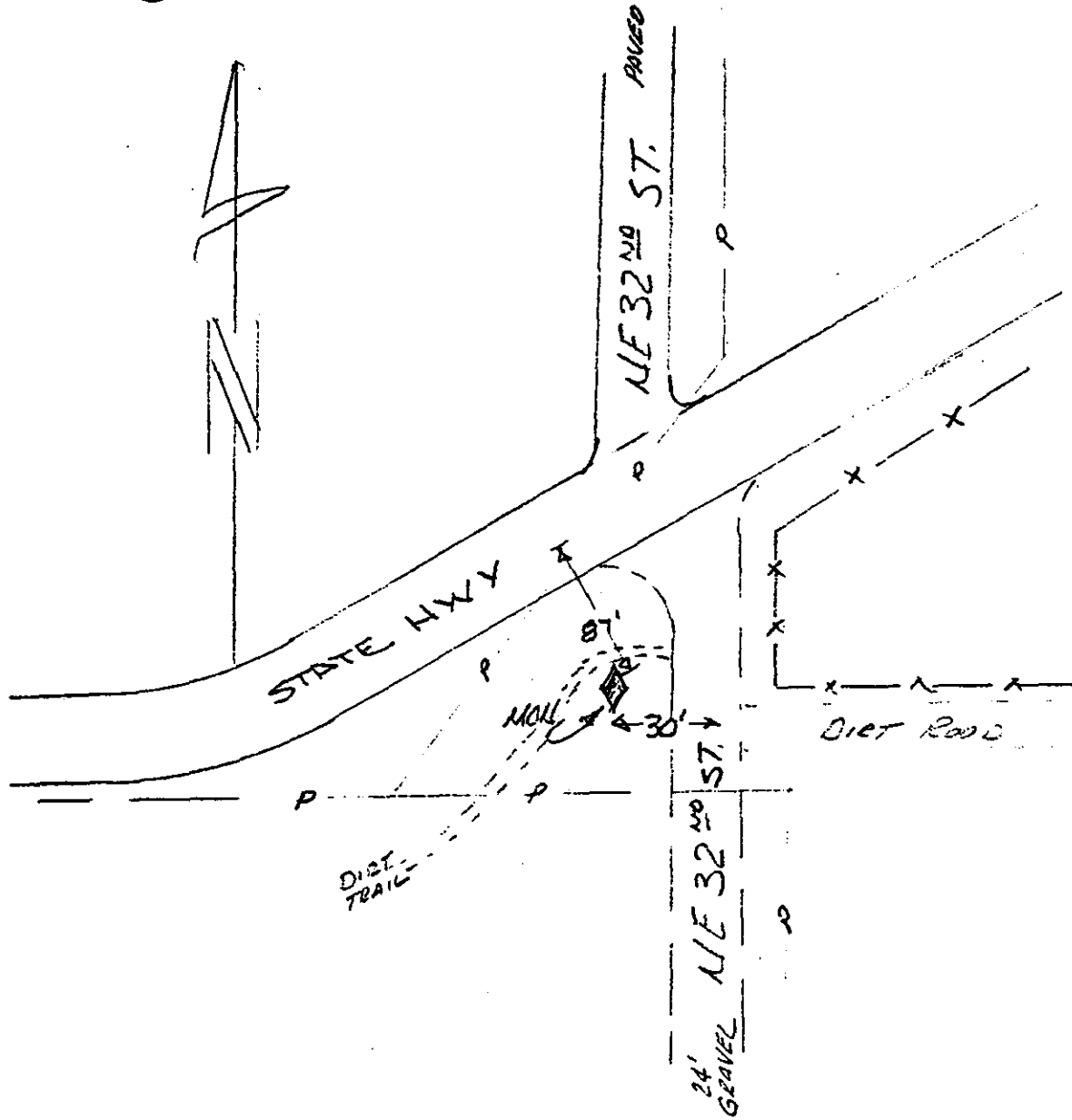
THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 70 FEET SOUTH OF THE SOUTH EDGE OF O'NEIL HWY. 15 FEET WEST OF THE WEST EDGE OF NE 33rd STREETD.

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

Location and reference sketch:

Name: 1432500

GIS #: 28



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

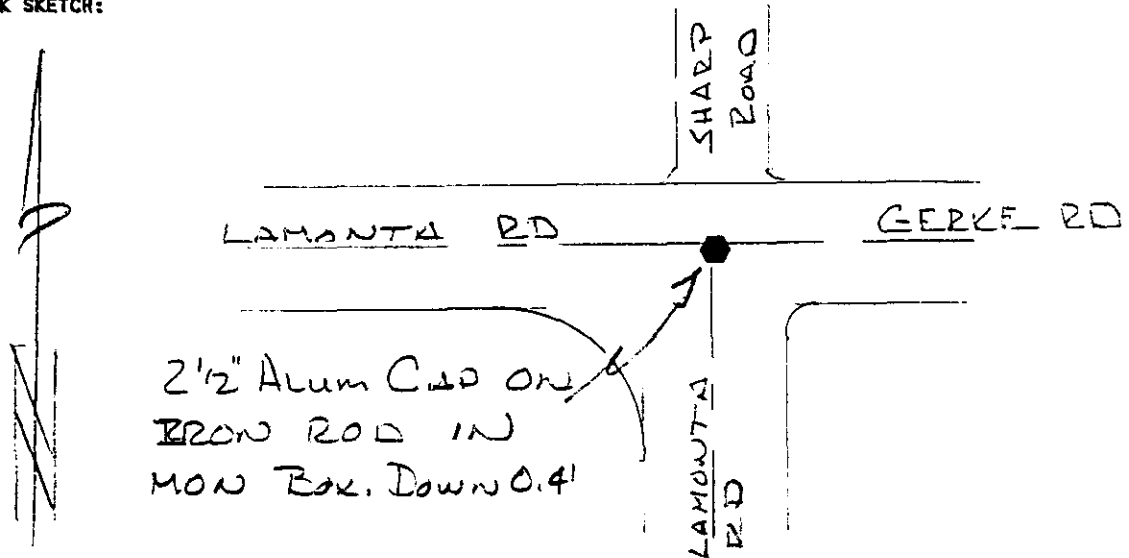
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: 14150100 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM E-21

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

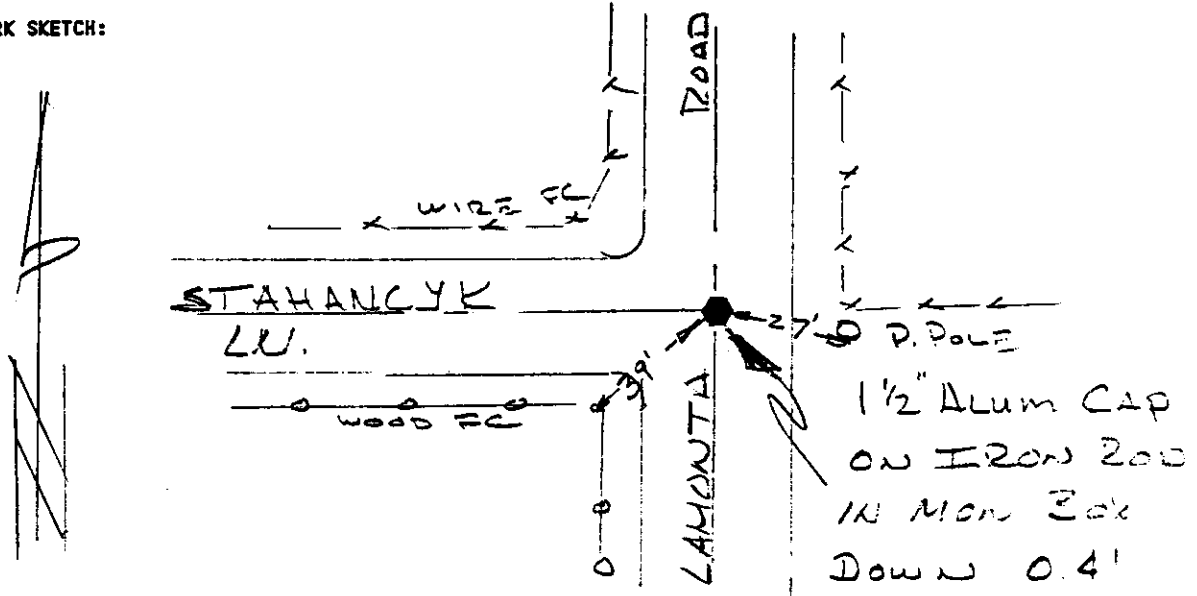
GEODETTIC AND MAPPING COORDINATES

MARK: <u>14150100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°22'38.538655"</u>	ONE SIGMA ERROR
Longitude:	<u>120°53'11.379817"</u>	
Northing:	<u>502413.4066</u>	<u>0.019</u>
Easting:	<u>3403778.125</u>	<u>0.019</u>
Convergence:	<u>+ 0°16'39.1582"</u>	
Scale Factor:	<u>1.000172297769</u>	
Ellipsoid Height:	<u>2915.2972</u>	<u>0.027</u>
Orthometric Height:	<u>2978.7109</u>	<u>0.090</u>
Geoid Height:	<u>-63.4137</u>	

CONTROL MARK DATA

NAME OF MARK: 14151300 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM N-21

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

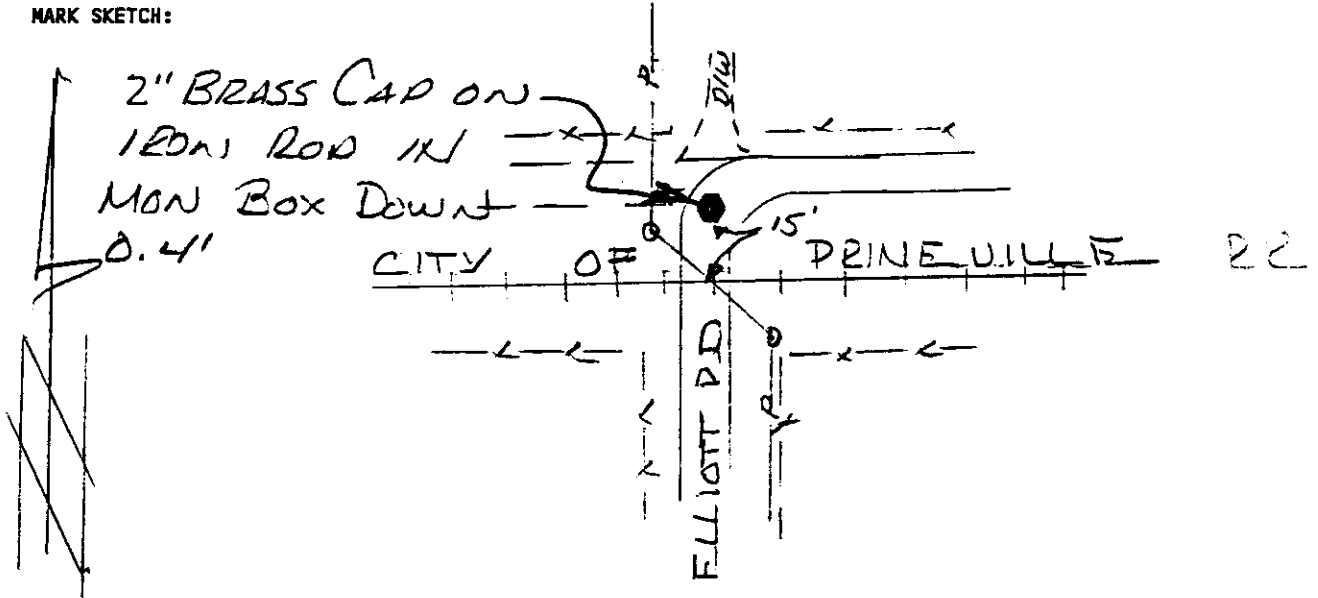
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>14151300</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°20'54.162696"	ONE SIGMA ERROR
Longitude:	120°53'11.556126"	
Northing:	491841.7048	0.014
Easting:	3403816.508	0.014
Convergence:	+ 0°16'38.5181"	
Scale Factor:	1.000172306952	
Ellipsoid Height:	2862.8009	0.020
Orthometric Height:	2926.3796	0.076
Geoid Height:	-63.5787	

CONTROL MARK DATA

NAME OF MARK: 14151500 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM N-13

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

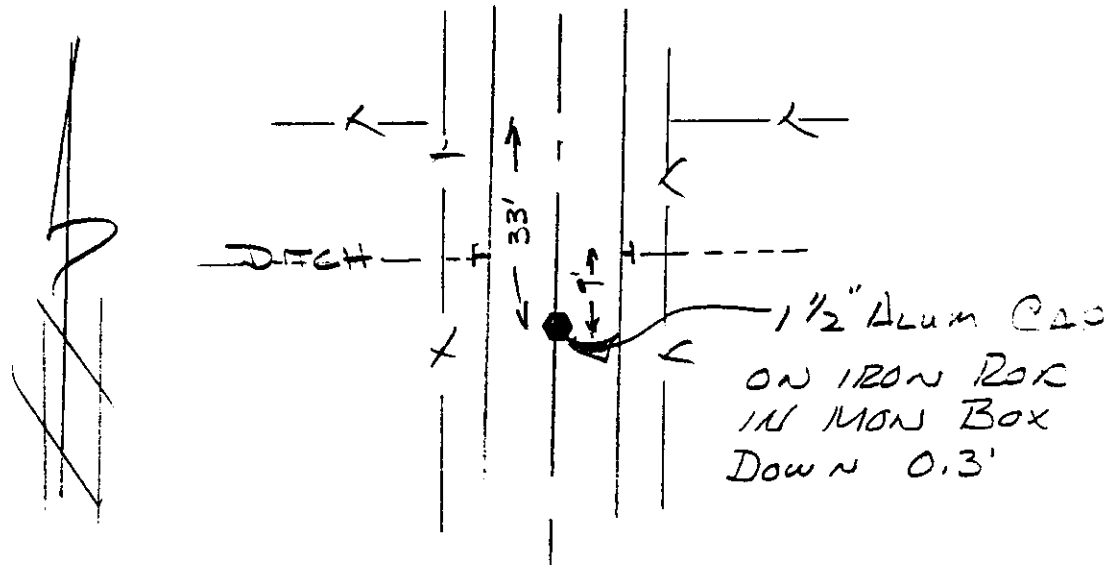
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 14151500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°20'54.986233"	ONE SIGMA ERROR
Longitude:	120°55'36.588644"	
Northing:	491876.6791	0.015
Easting:	3393275.4618	0.015
Convergence:	+ 0°14'57.1390"	
Scale Factor:	1.000169934631	
Ellipsoid Height:	2763.4919	0.021
Orthometric Height:	2827.3885	FIXED
Geoid Height:	-63.8966	

CONTROL MARK DATA

NAME OF MARK: 14152200 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM R-13

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

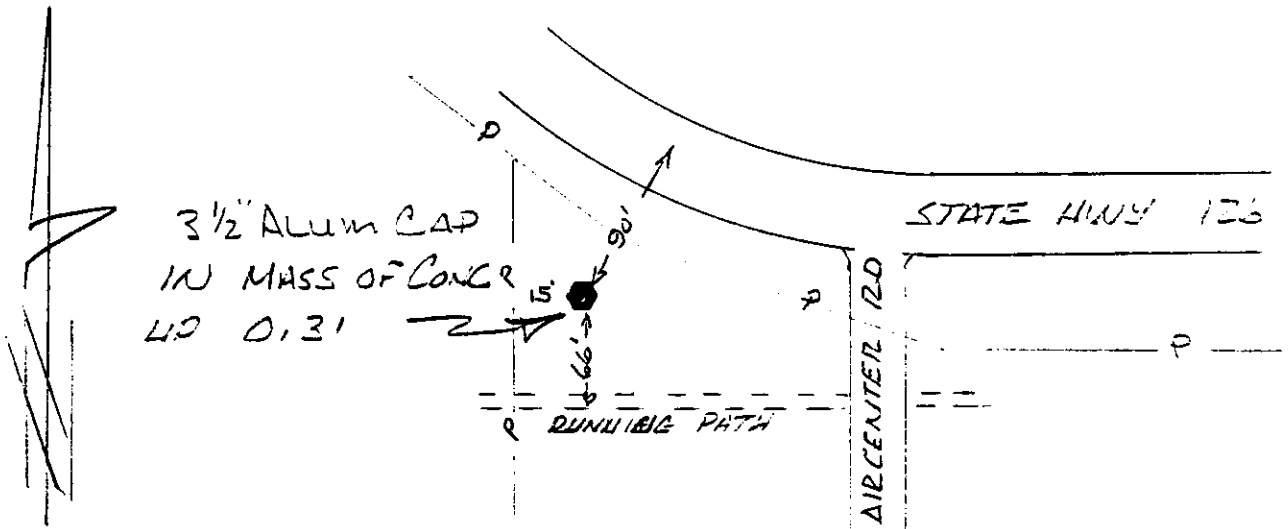
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 14152200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°20'02.909778"	ONE SIGMA ERROR
Longitude:	120°55'36.990944"	
Northing:	486602.0483	0.015
Easting:	3393269.1547	0.014
Convergence:	+ 0°14'56.6261"	
Scale Factor:	1.000169933322	
Ellipsoid Height:	2757.6385	0.021
Orthometric Height:	2821.5223	0.047
Geoid Height:	-63.8837	

CONTROL MARK DATA

NAME OF MARK: 15131400 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 15 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1032

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: 15131400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°15'43.386380"	ONE SIGMA ERROR
Longitude:	121°08'54.906150"	
Northing:	460142.9905	FIXED
Easting:	3335307.3725	FIXED
Convergence:	+ 0°05'38.5673"	
Scale Factor:	1.000161423489	
Ellipsoid Height:	2984.8917	FIXED
Orthometric Height:	3049.9081	FIXED
Geoid Height:	-65.0164	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: 15131400
GIS # 0027
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION

T. 15 S.- R. 13 E., SEC.14

LATITUDE: 44° 15' 43.38638" N
LONGITUDE: 121° 08' 54.90615" W

----- EC CARTESIAN -----
X: -2366902.275 METERS
Y: -3916146.775 METERS
Z: +4429625.877 METERS

----- HEIGHT -----
ELLIPSOIDAL: 909.795 METERS
NGVD 29 : 929.623 METERS
NAVD 88 : 930.725 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 288523.149±.004 METERS
EAST: 1448205.492±.004 METERS

SCALE FACTOR: 1.000077189
CONVERGENCE: - 0° 26' 37.42 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - T 15 S R 13 E 15|14 22|23 LS 1031 1988
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 1.4 MILE EASTERLY OF REDMOND.

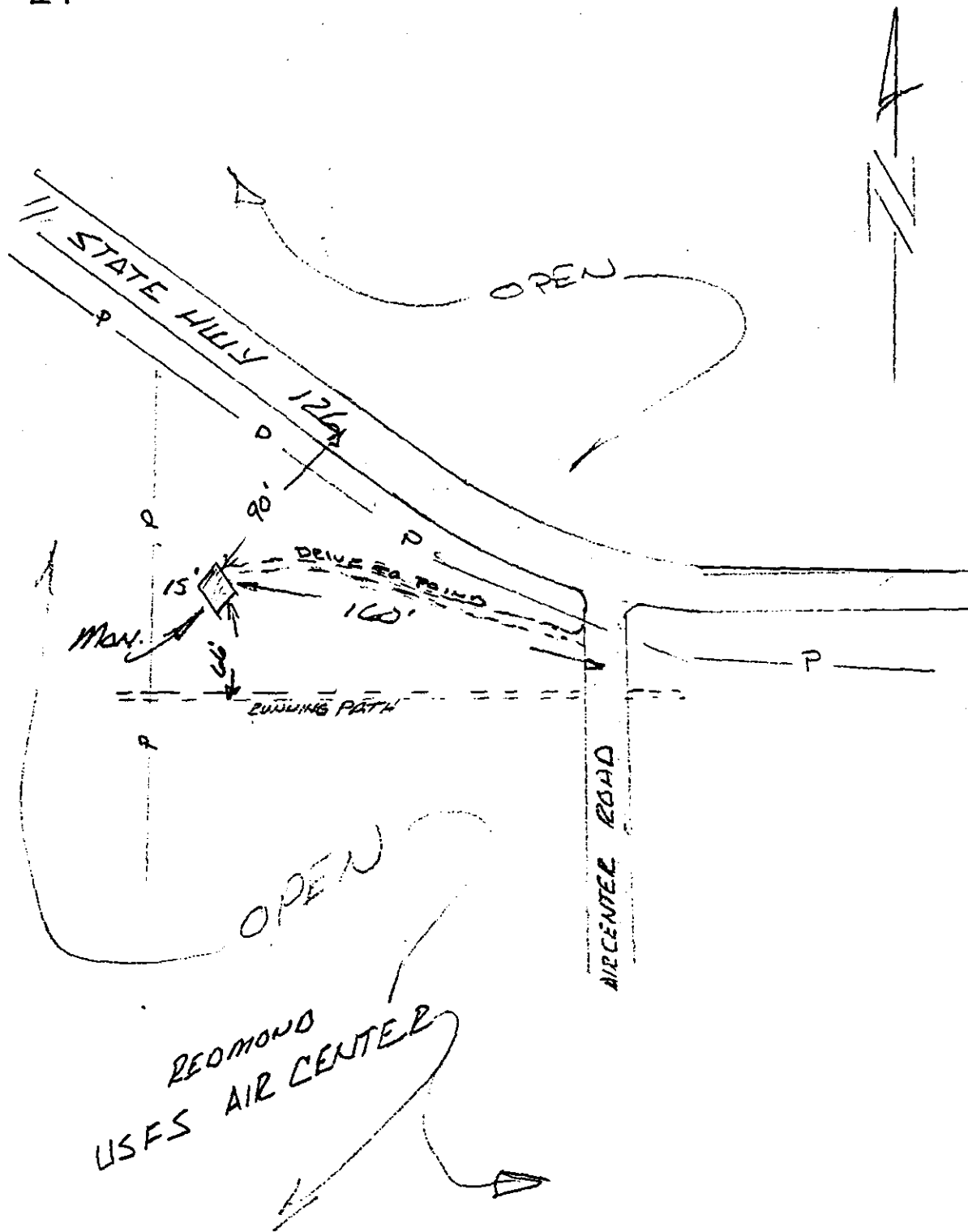
TO REACH THE STATION FROM REDMOND, START AT THE INTERSECTION OF US HWY 97 (5th ST.) & OR.HWY 126 (EVERGREEN AV.), PROCEED EAST ON HWY 126 FOR 1.55 MI., TURN RIGHT AT THE ENTRANCE TO THE US FOREST REDMOND AIR CENTER & PROCEED SOUTH 85 FEET TO A 10 FOOT WIDE PATH ,,,,,, TURN RIGHT AND PROCEED WESTERLY FOR 115 FEET TO THE STATION FEET TO THE (NORTH) RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 70 FEET SOUTH OF THE SOUTH EDGE OF US HWY 126. 115 FEET WEST OF A ENTRANCE ROAD TO FOREST SERVICE AIR CENTER. 75 FEET NORTH OF 10 FOOT JOGGING PATH.

Location and reference sketch:

Name: 1513 1400

GIS #: 27



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

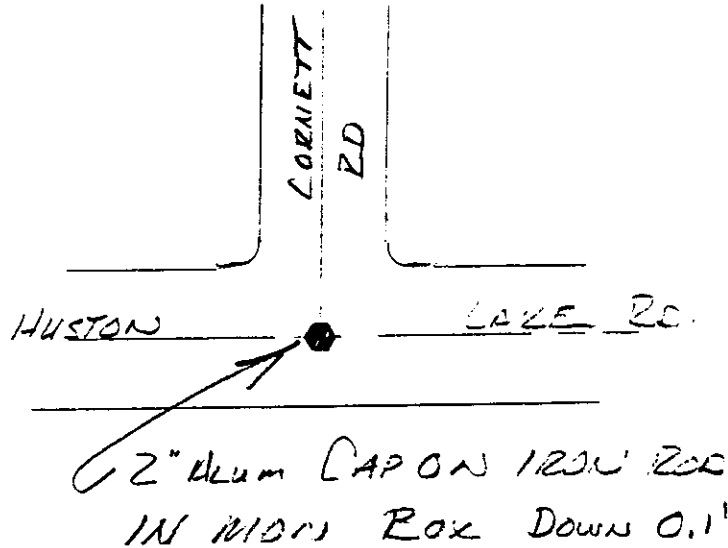
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: 15140100 COUNTY: CROOK
 MARK SET BY: LS 1026 DAVID ARMSTRONG STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 15 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OLCM E-21

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

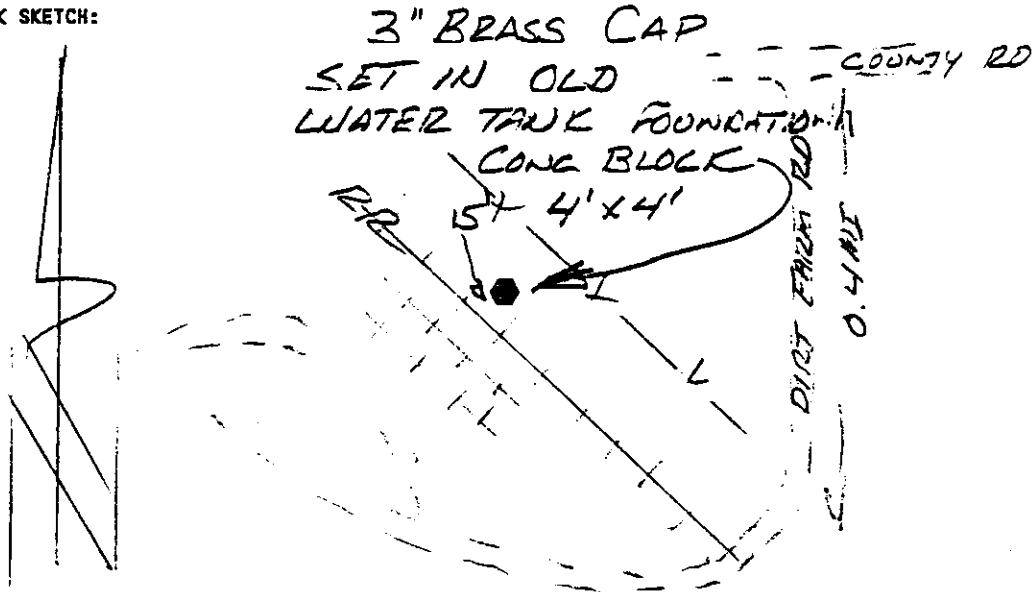
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 15140100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°17'27.799907"	ONE SIGMA ERROR
Longitude:	121°00'28.810271"	
Northing:	470810.2763	0.013
Easting:	3372107.8976	0.012
Convergence:	+ 0°11'32.1541"	
Scale Factor:	1.000165937277	
Ellipsoid Height:	2960.2487	0.018
Orthometric Height:	3024.5601	0.067
Geoid Height:	-64.3114	

CONTROL MARK DATA

NAME OF MARK: C-15 PP&L COUNTY: JEFFERSON
MARK SET BY: P. P. & L. STATE: OREGON
DATE OF MARK: 1926 COUNTRY: U.S.A.
LOCATION: SECTION 18 TOWNSHIP 13 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

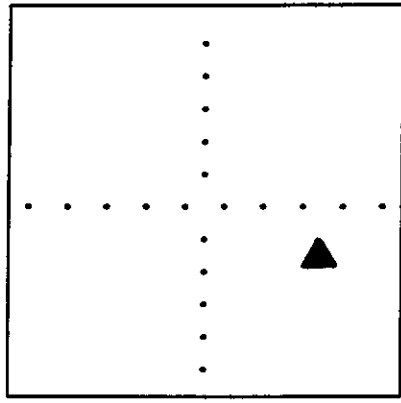
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

MARK: C-15 PP&L HORIZONTAL ORDER: FIRST

Latitude:	44°26'38.049066"	ONE
Longitude:	121°12'45.267020"	SIGMA
Northing:	526428.8648	ERROR
Easting:	3318483.3975	0.008
Convergence:	+ 0°02'58.3668"	0.008
Scale Factor:	1.000160390093	
Ellipsoid Height:	2791.3623	0.013
Orthometric Height:	2856.6601	FIXED
Geoid Height:	-65.2978	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: C-30 1921 GIS # 0034 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 17 S.- R. 12 E., SEC.09</p>	<p>LATITUDE: 44° 06' 53.97704" N LONGITUDE: 121° 17' 27.31060" W</p> <p>----- EC CARTESIAN ----- X: -2382584.114 METERS Y: -3920061.842 METERS Z: +4417989.709 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1028.261 METERS NGVD 29 : 1048.013 METERS NAVD 88 : 1049.170 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 272280.186±.003 METERS EAST: 1436684.962±.003 METERS</p> <p>SCALE FACTOR: 1.000031262 CONVERGENCE: - 0° 32' 27.98 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - C 30 1921 ELEV. 3438.349
AGENCY INSCRIPTION - US COST & GEODITIC SURVEY
THE STATION IS LOCATED ABOUT 4.0 MILES NORTH OF BEND.

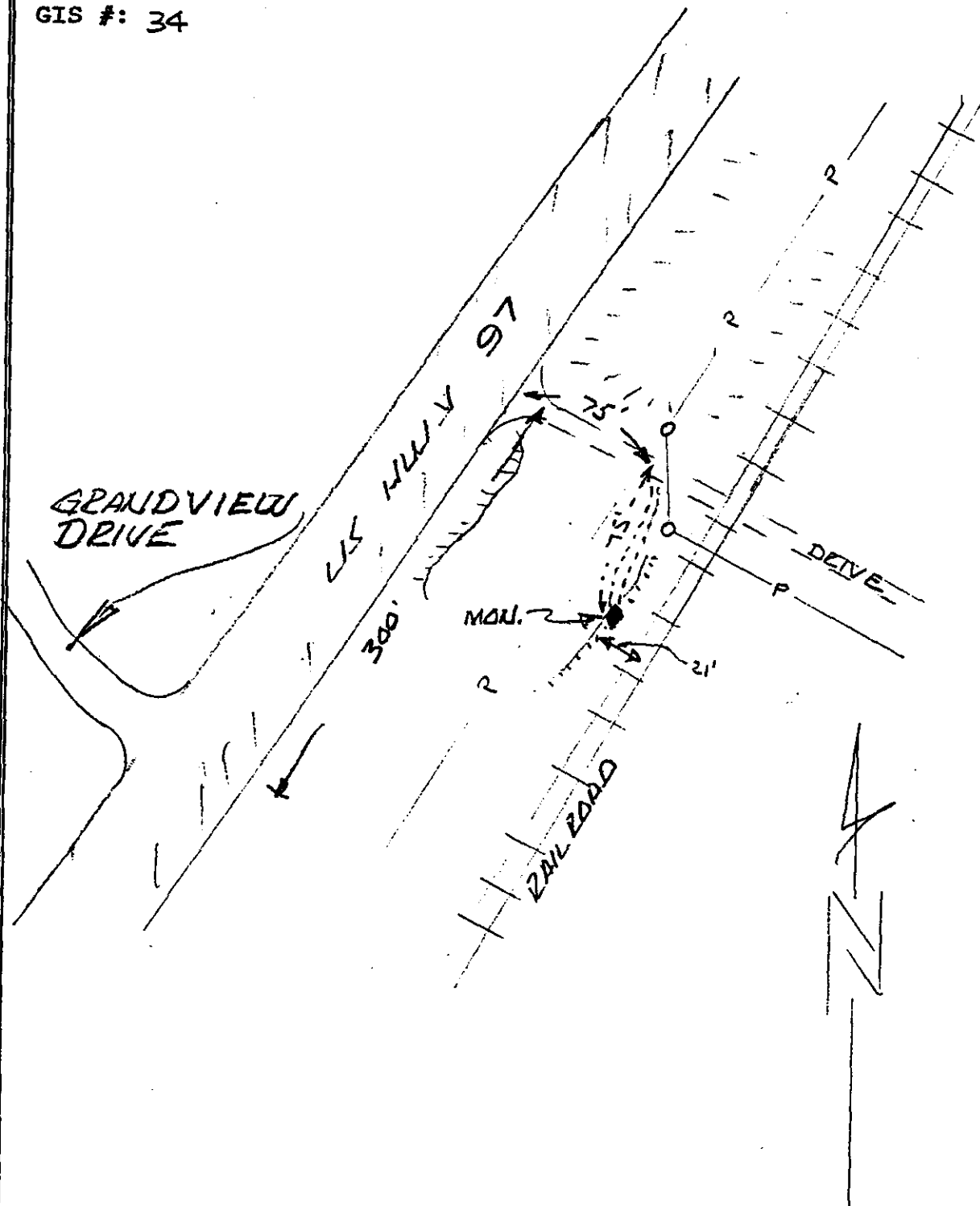
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 4.00 MI., TURN RIGHT ON A DIRT ACCESS RD. LEADS TO RAILROAD CROSSING, PROCEED EAST FOR 144 FEET, WALK SOUTH 70 FEET TO THE STATION.

THE STATION MARK IS A 3 1/2 IN. STANDARD US GEODETIC SURVEY BRASS DISK IN GROUT IN A ROCK LEDGE, 2 FEET ABOVE RAILROAD GRADE. 1 FOOT NORTH OF A WITNES POST. 25 FEET WEST OF THE CENTER OF RAILROAD TRACKS.

Location and reference sketch:

Name: C-30 1921

GIS #: 34



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

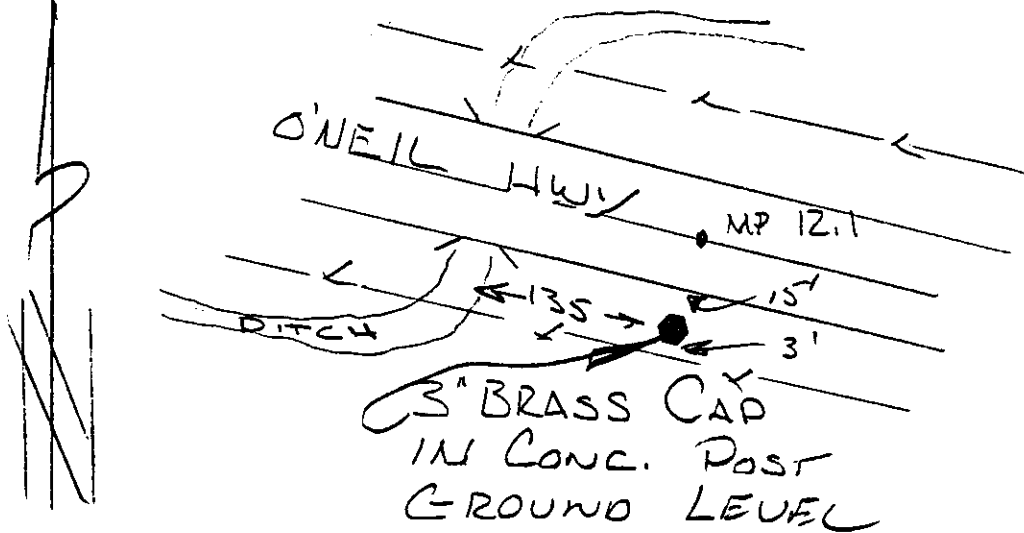
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: C-457 COUNTY: CROOK
 MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
 DATE OF MARK: 1953 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

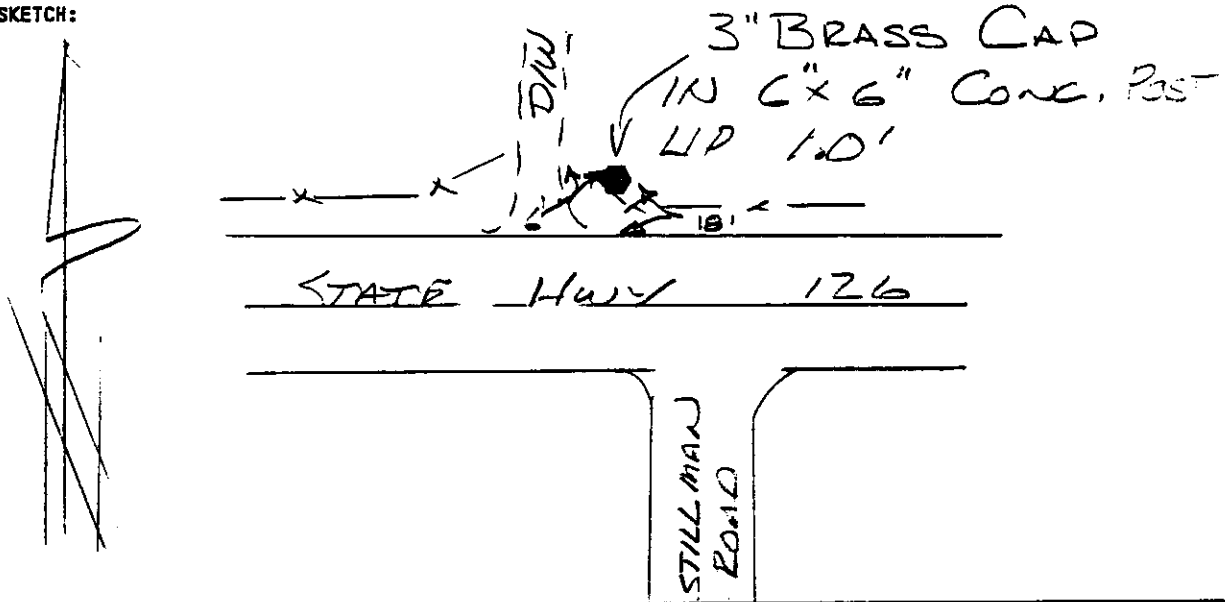
GEODETTIC AND MAPPING COORDINATES

<u>MARK: C-457</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°20'15.921997"	ONE SIGMA ERROR
Longitude:	120°57'03.633018"	
Northing:	487893.5195	0.013
Easting:	3386965.3103	0.012
Convergence:	+ 0°13'56.1299"	
Scale Factor:	1.000168635943	
Ellipsoid Height:	2751.0131	0.018
Orthometric Height:	2815.0361	FIXED
Geoid Height:	-64.023	

CONTROL MARK DATA

NAME OF MARK: C-463 COUNTY: CROOK
MARK SET BY: U.S. C. & G.S. STATE: OREGON
DATE OF MARK: 1936 COUNTRY: U.S.A.
LOCATION: SECTION 20 TOWNSHIP 15 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



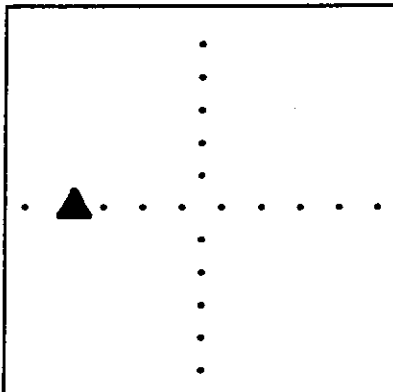
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: C-463</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°14'51.087520"</u>	ONE SIGMA ERROR
Longitude:	<u>120°57'45.313982"</u>	
Northing:	<u>454981.2495</u>	<u>0.015</u>
Easting:	<u>3384064.0886</u>	<u>0.014</u>
Convergence:	<u>+ 0°13'25.6975"</u>	
Scale Factor:	<u>1.000168069520</u>	
Ellipsoid Height:	<u>3169.2169</u>	<u>0.020</u>
Orthometric Height:	<u>3232.9757</u>	<u>FIXED</u>
Geoid Height:	<u>-63.7588</u>	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: CAREY 1971 GIS # 0052 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 21 S.- R. 10 E., SEC.18</p>	<p>LATITUDE: 43° 45' 10.54426" N LONGITUDE: 121° 27' 40.43964" W</p> <p>----- EC CARTESIAN ----- X: -2408884.422 METERS Y: -3936918.823 METERS Z: +4389175.714 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1261.647 METERS NGVD 29 : 1281.072 METERS NAVD 88 : 1282.290 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 232196.690±.005 METERS EAST: 1422589.764±.004 METERS</p> <p>SCALE FACTOR: 0.999946594 CONVERGENCE: - 0° 39' 27.45 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - CAREY 1971
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 6 MILES NORTHERLY OF LIPINE

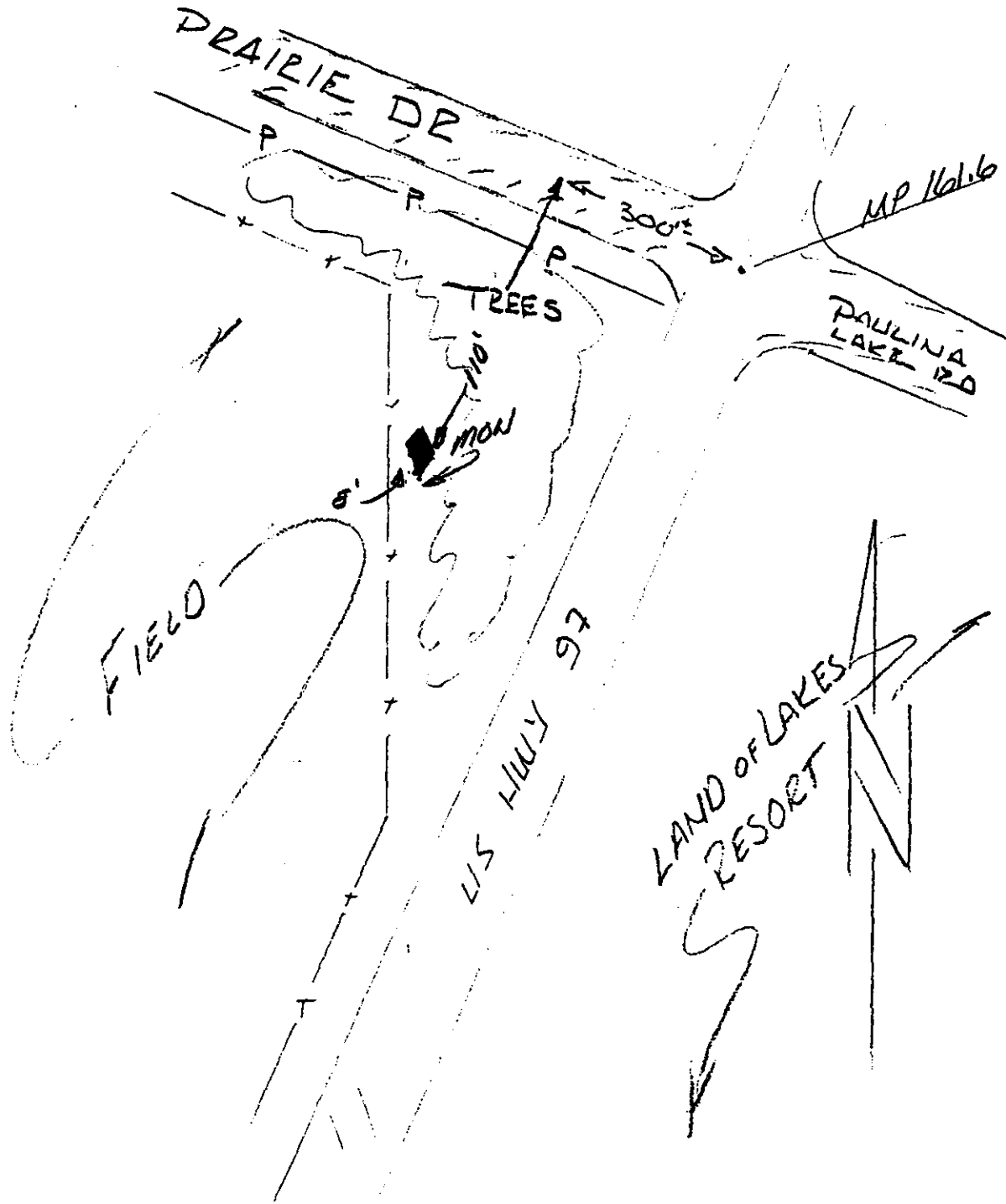
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 6.3 TO INTERSECTION WITH PAULINA LAKE RD. AND PRAIRE DRIVE ROAD, TURN LEFT ON PRAIRIE DRIVE AND PROCEED FOR 400 FEET MORE OR LESS TO THE STATION ON THE LEFT.

THE STATION MARK IS A STANDARD 3 1/2 IN ALUMINUM CAP IN A MASS OF CONCRETE AT GROUND LEVEL.
1 FOOT NORTHERLY OF A WITNES POST
10 FEET EASTERLY FROM A WIRE FENCE LINE

Location and reference sketch:

Name: CAREY

GIS #: 52



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

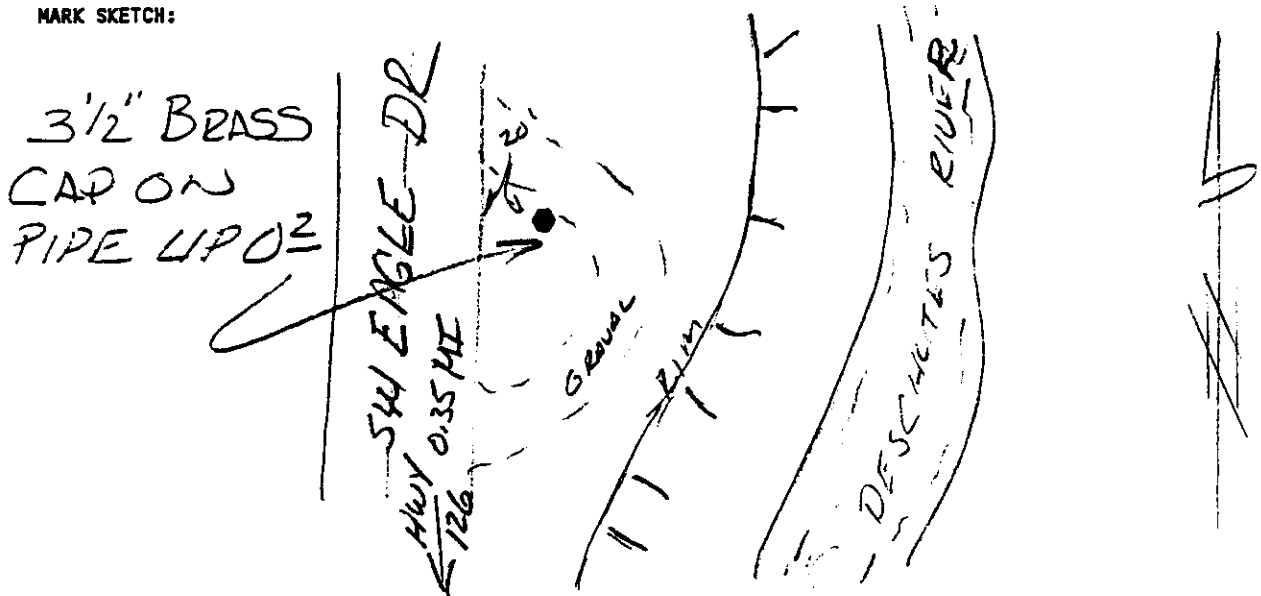
Bend, Oregon. 97702

(503) 383-4295

CONTROL MARK DATA

NAME OF MARK: CLINE FALLS COUNTY: DESCHUTES
MARK SET BY: U.S. C. & G.S. STATE: OREGON
DATE OF MARK: 1945 COUNTRY: U.S.A.
LOCATION: SECTION 11 TOWNSHIP 15 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

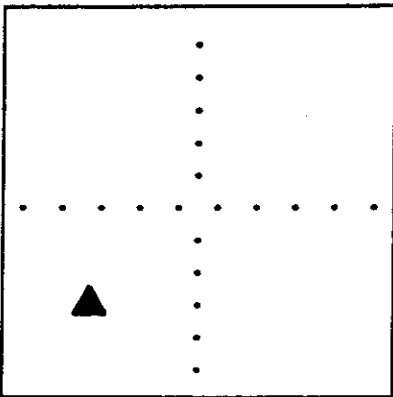
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

MARK: CLINE FALLS HORIZONTAL ORDER: FIRST

Latitude:	<u>44°16'41.810500"</u>	ONE
Longitude:	<u>121°15'30.541500"</u>	SIGMA
Northing:	<u>466032.3417</u>	ERROR
Easting:	<u>3306509.4115</u>	FIXED
Convergence:	<u>+ 0°01'02.4549"</u>	FIXED
Scale Factor:	<u>1.000160048384</u>	
Ellipsoid Height:	<u>2853.6048</u>	<u>0.016</u>
Orthometric Height:	<u>2919.147</u>	<u>FIXED</u>
Geoid Height:	<u>-65.5422</u>	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: CLINE 1971 GIS # 0032 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 15 S.- R. 12 E., SEC.21</p>	<p>LATITUDE: 44° 15' 11.46185" N LONGITUDE: 121° 18' 10.51745" W</p> <p>----- EC CARTESIAN ----- X: -2377918.546 METERS Y: -3910539.733 METERS Z: +4429142.583 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1228.705 METERS NGVD 29 : 1248.708 METERS NAVD 88 : 1249.822 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 287644.547±.003 METERS EAST: 1435871.431±.003 METERS</p> <p>SCALE FACTOR: 1.000074230 CONVERGENCE: - 0° 32' 57.54 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - CLINE 1971
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 13.0 MILES NORTH OF BEND.

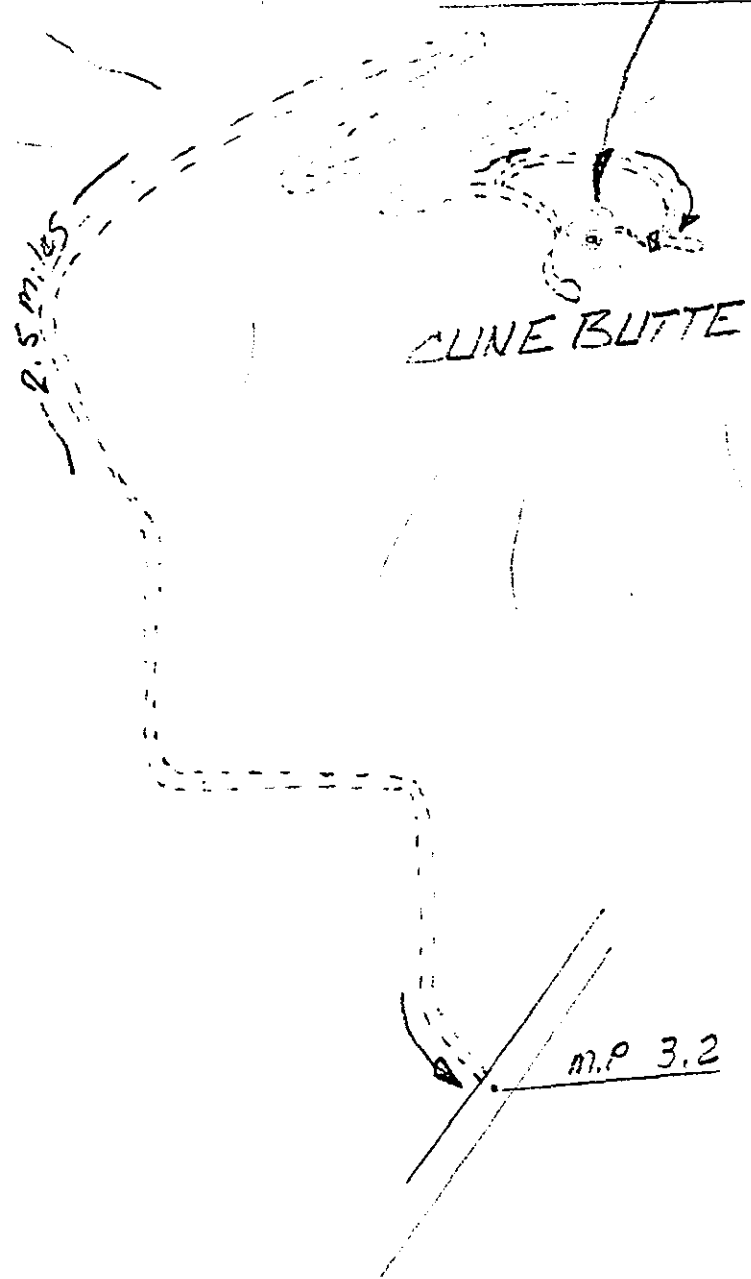
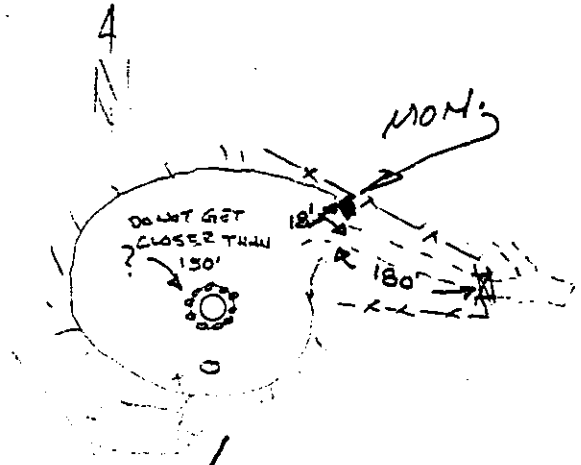
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 2.50 MI., TURN LEFT (TAKE HWY 20 OVERPASS) WESTERLY FOR 3.8 MI. TO CLINE FALLS HWY (IN TUMALO), TURN RIGHT & PROCEED NORTH FOR 6.9 MILES TO A SIDE ROAD ON THE LEFT AND A WIRE GATE. TURN AND PROCEED ON ROAD TO TOP OF CLINE BUTTE FOR 2.6 MI TO A STEEL PIPE GATE. WALK UP ROAD FOR 400 FEET TO STATION ON RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DISK GROUTED IN BEDROCK AT GROUND LEVEL.
24 FEET NORTH OF ROAD.

Location and reference sketch:

Name: CLINE 1971

GIS #: 32



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

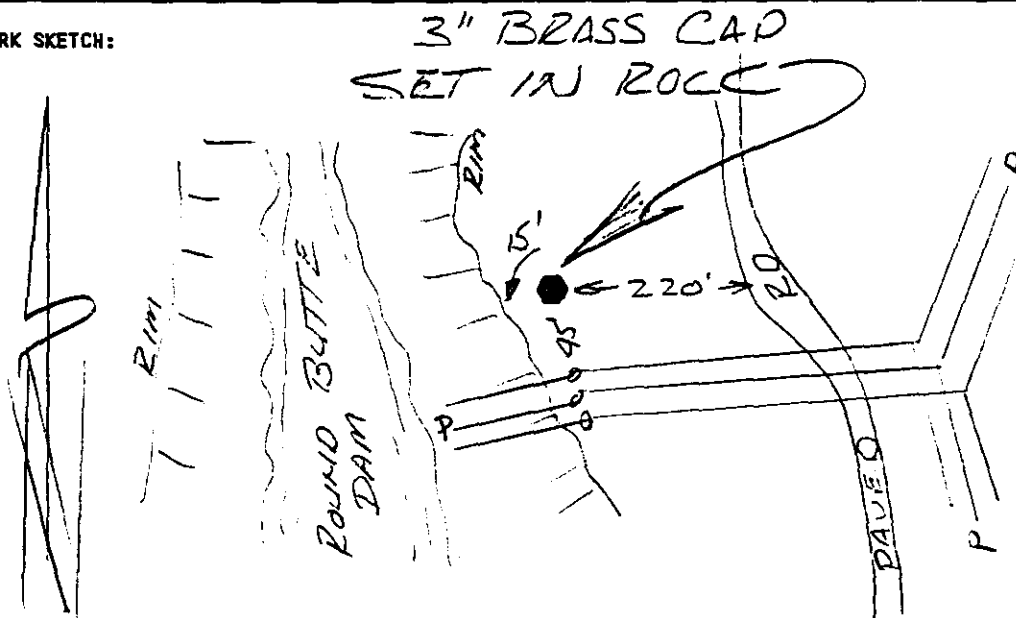
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: CROOK COUNTY: JEFFERSON
MARK SET BY: U.S. C. & G.S. STATE: OREGON
DATE OF MARK: 1946 COUNTRY: U.S.A.
LOCATION: SECTION 2 TOWNSHIP 12 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

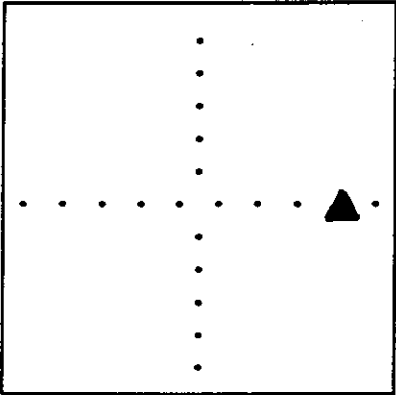
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

MARK: CROOK HORIZONTAL ORDER: FIRST

Latitude:	44°33'37.743659"	ONE SIGMA ERROR
Longitude:	121°15'39.678247"	
Northing:	568931.1326	0.014
Easting:	3305816.5347	0.013
Convergence:	+ 0°00'56.3587"	
Scale Factor:	1.000160038630	
Ellipsoid Height:	2532.3447	0.025
Orthometric Height:	2598.7702	0.111
Geoid Height:	-66.4255	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: DES016 1990 GIS # 0064 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 17 S.- R. 09 E., SEC.10</p>	<p>LATITUDE: 44° 07' 04.70321" N LONGITUDE: 121° 37' 43.72853" W</p> <p>----- EC CARTESIAN ----- X: -2405873.021 METERS Y: -3906287.750 METERS Z: +4418843.779 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1913.648 METERS NGVD 29 : 1932.616 METERS NAVD 88 : 1933.942 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 272921.251±.007 METERS EAST: 1409641.591±.007 METERS</p> <p>SCALE FACTOR: 1.000032126 CONVERGENCE: - 0° 46' 20.19 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - DES016 1990
AGENCY INSCRIPTION - USFS
THE STATION IS LOCATED ABOUT 12.5 MILES SOUTH OF SISTERS

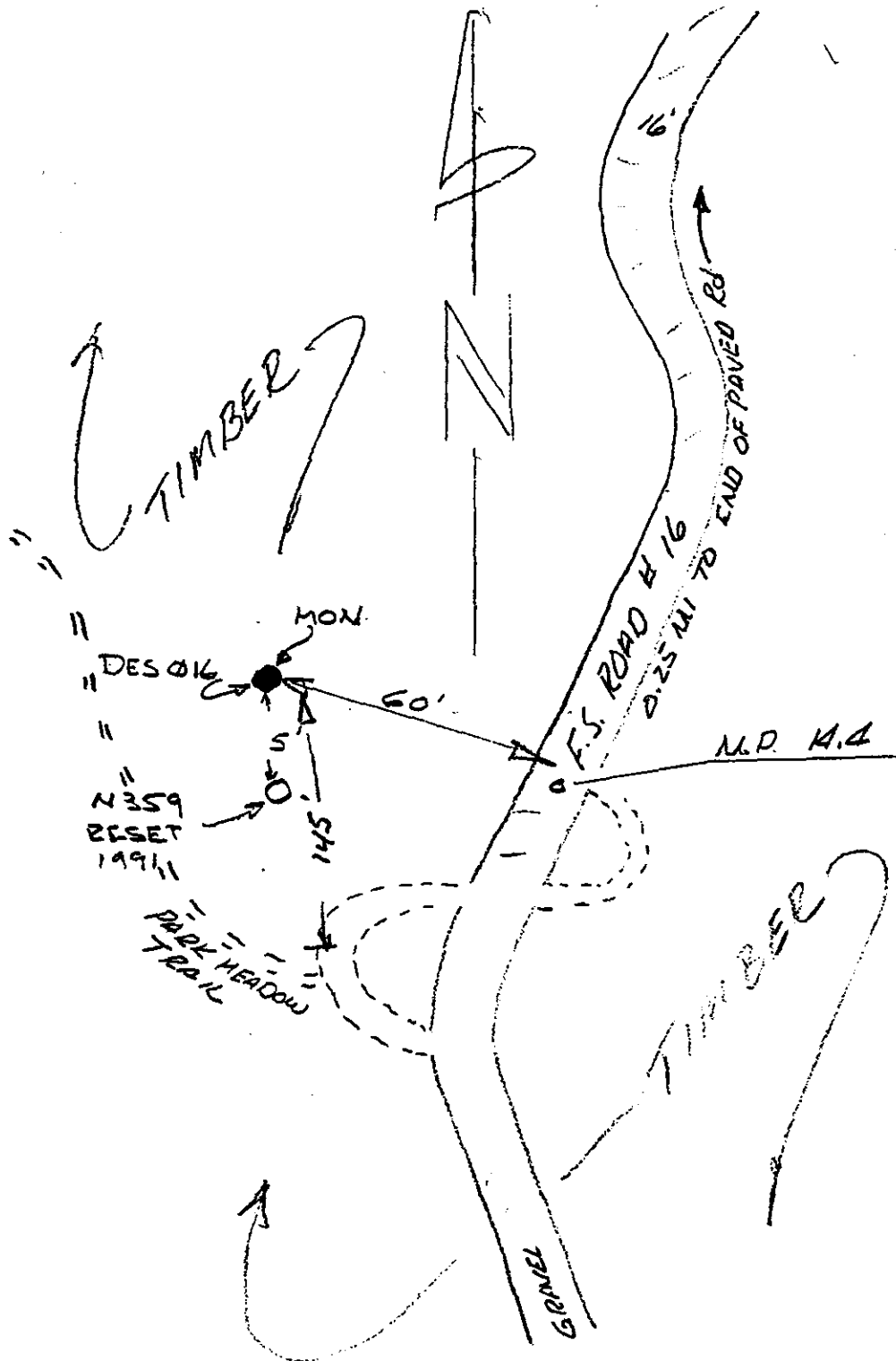
TO REACH THE STATION FROM SISTERS START AT THE INTERSECTION OF ELM STREET AND US HWY 20 (CASCADE ST.), PROCEED SOUTH ON ELM ST. (AT CITY LIMITS ROAD IS NAMED THREE CREEKS ROAD AND FOREST RD 16) FOR 14.46 MILES TO THE STATION N THE RIGHT.

THE STATION MARK IS A 1 1/2 IN. ALUMINUM CAP ON A 5/8 IN. IRON ROD 1 IN. ABOVE GROUND LEVEL.
63 FEET NORHTWEST FROM THE ROAD CENTER LINE
1 FOOT EAST FROM A WITNES POST

Location and reference sketch:

Name: DES 016

GIS #: 69



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: E 30 RESET 1969 GIS # 0030 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p> <hr/> <p>LATITUDE: 44° 09' 44.11872" N LONGITUDE: 121° 15' 05.57057" W</p> <p>----- EC CARTESIAN -----</p> <p>X: -2377973.905 METERS Y: -3918541.092 METERS Z: +4421724.853 METERS</p> <p>----- HEIGHT -----</p> <p>ELLIPSOIDAL: 979.148 METERS NGVD 29 : 998.970 METERS NAVD 88 : 1000.107 METERS</p> <p>---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 277502.617±.003 METERS EAST: 1439883.846±.003 METERS</p> <p>SCALE FACTOR: 1.000045293 CONVERGENCE: - 0° 30' 51.01 "</p>
<p align="center">STATION LOCATION</p> <div style="border: 1px solid black; width: 150px; height: 150px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 50px; left: 50px;"> <p style="text-align: center;">. ▲</p> </div> </div> <p align="center">T. 16 S.- R. 12 E., SEC.26</p>	

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - E 30 RESET 1969
AGENCY INSCRIPTION - US COST & GEODITIC SURVEY
THE STATION IS LOCATED ABOUT 7.8 MILES NORTHERLY OF BEND.

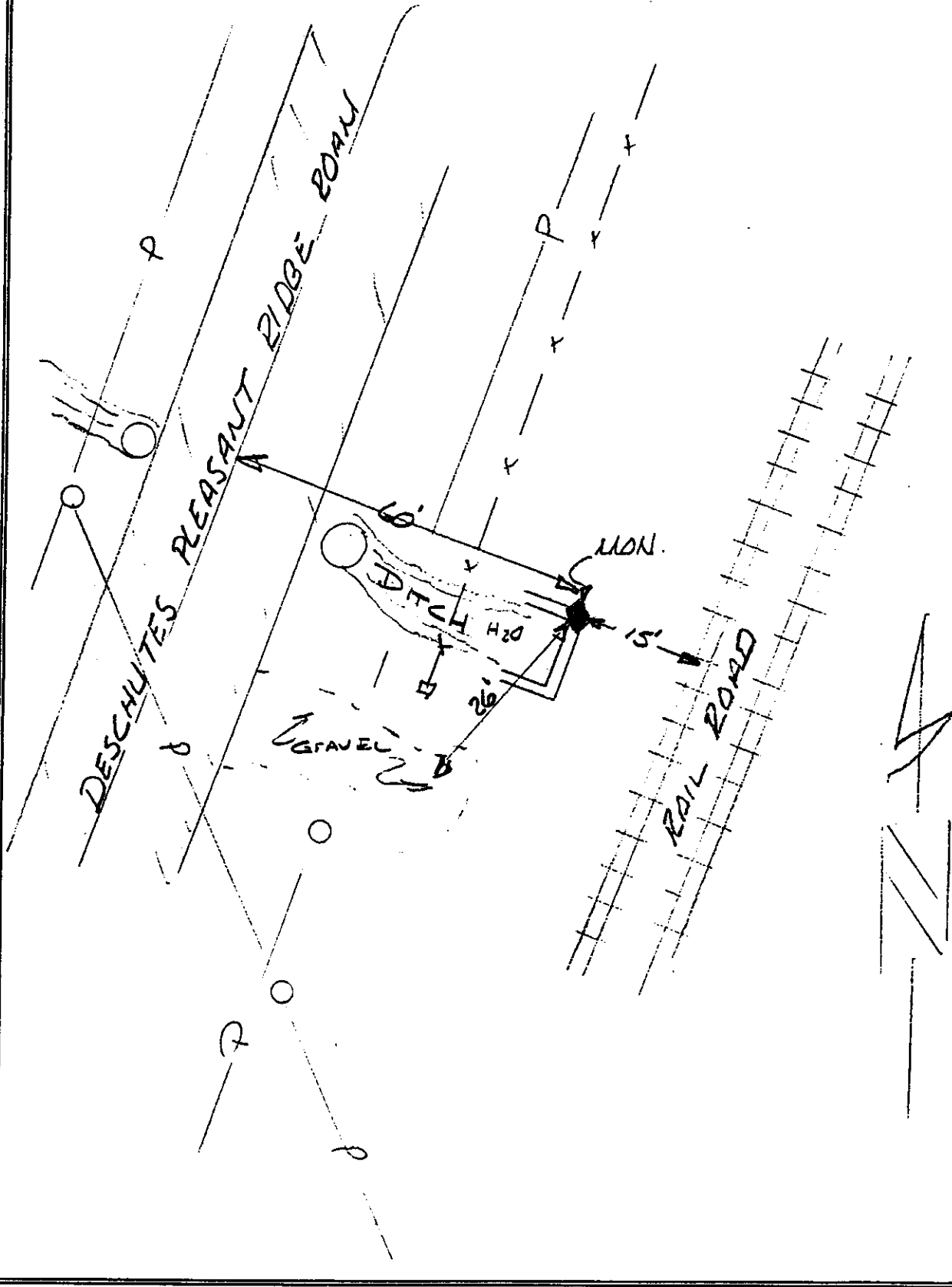
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 7.47 MI., TURN RIGHT AT DESCHUTES JUNCTION AND PROCEED EAST FOR 0.24 MI., TURN LEFT ON PLEASANT RIDGE ROAD AND PROCEED NORTH FOR 0.27 FEET TO THE STATION ON THE RIGHT WHERE A IRRIGATION DITCH PASSES UNDER THE ROAD

THE STATION MARK IS A 3 1/2 IN. STANDARD US GEODETIC SURVEY BRASS DISK IN GROUT IN THE NORTHEAST CORNER OF A CONCRETE IRRIGATION SIPHON HEADWALL THAT IS 16 FEET WEST OF THE CENTER OF THE WESTERLY SET OF RAILROAD TRACKS.

Location and reference sketch:

Name: E-20 RESET 1969

GIS #: 30



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

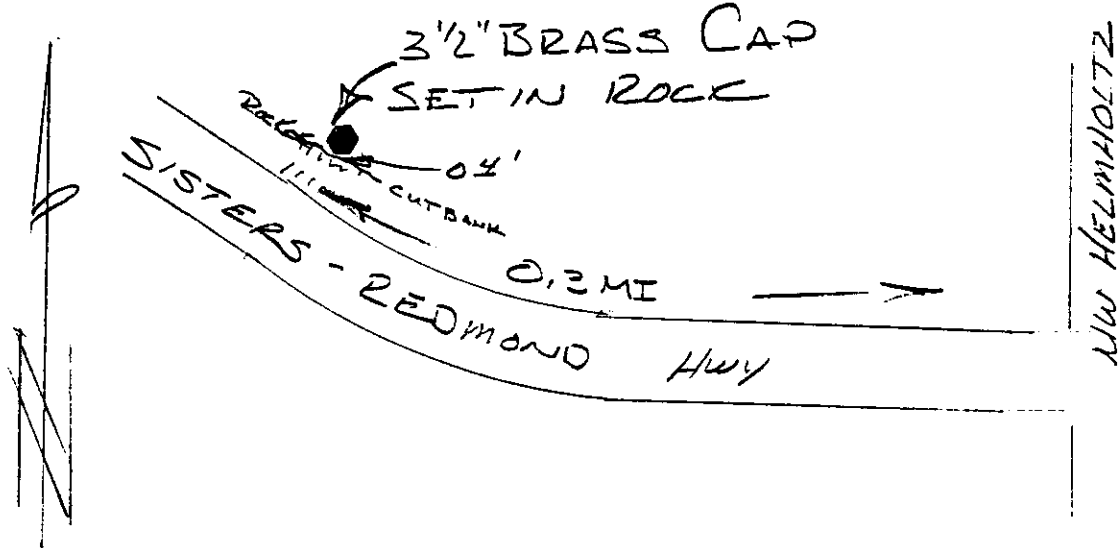
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: E-735 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 15 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

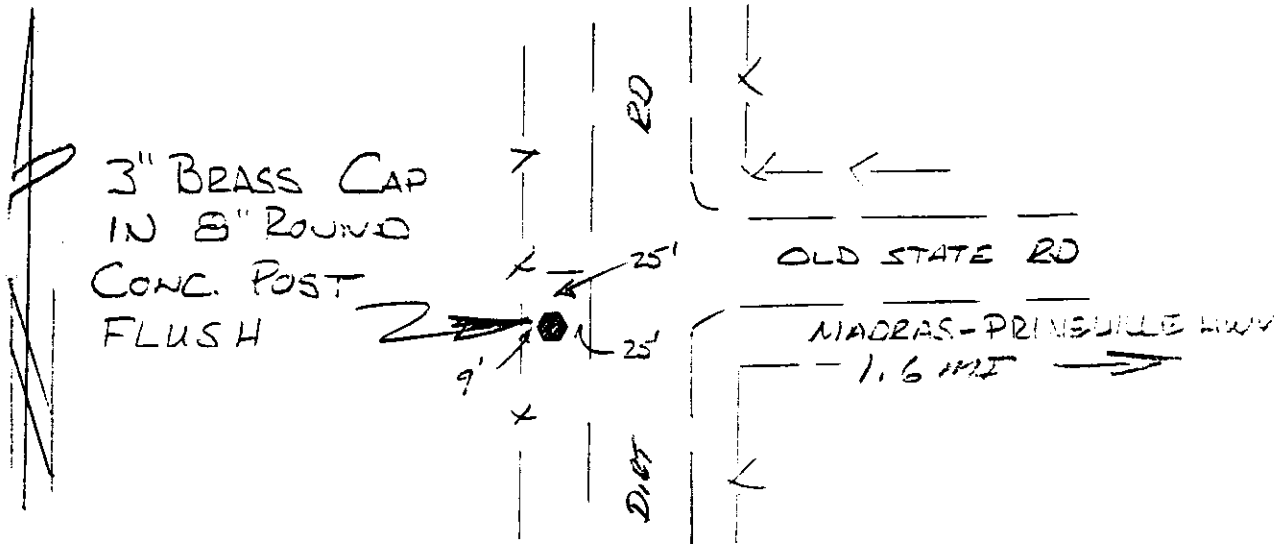
GEODETIC AND MAPPING COORDINATES

<u>MARK: E-735</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°16'13.809676" ONE SIGMA ERROR
Longitude:	121°13'32.888235" 0.013
Northing:	463200.642 0.013
Easting:	3315072.3916 0.017
Convergence:	+ 0°02'24.5737" FIXED
Scale Factor:	1.000160259410
Ellipsoid Height:	2939.4872
Orthometric Height:	3004.8556
Geoid Height:	-65.3684

CONTROL MARK DATA

NAME OF MARK: F-336 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1938 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 12 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= <u>NAD (83-91)</u> VERTICAL= <u>NGVD 29</u>	CENTRAL MERIDIAN: <u>W 121°17'00.000000"</u> LATITUDE OF ORIGIN: <u>N 43°00'00.000000"</u>
COORDINATE SYSTEM: <u>TRANSVERSE MERCATOR</u>	ORIGIN NORTHING: <u>0.0000 F</u>
ZONE: <u>DESCHUTES COUNTY</u>	ORIGIN EASTING: <u>3,300,000.0000 F</u>
LINEAR UNITS: <u>INTERNATIONAL FOOT</u>	SCALE ALONG MERIDIAN: <u>1.000160000000</u>

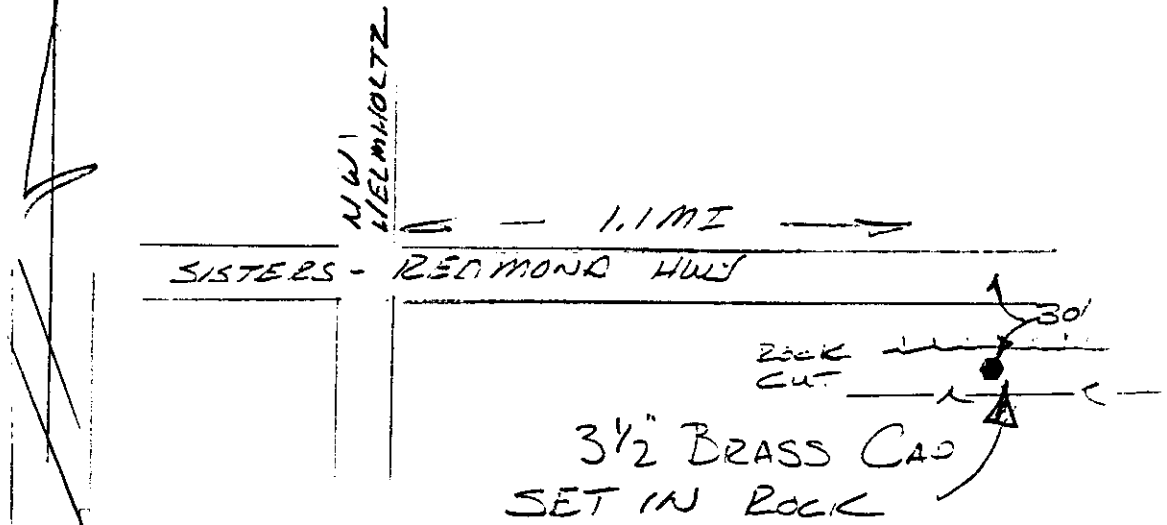
GEODETIC AND MAPPING COORDINATES

MARK: <u>F-336</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°29'02.219737"	ONE SIGMA ERROR
Longitude:	121°04'47.279400"	
Northing:	541089.4652	0.012
Easting:	3353129.7947	0.012
Convergence:	+ 0°08'33.4253"	
Scale Factor:	1.000163223127	
Ellipsoid Height:	3053.1335	0.021
Orthometric Height:	3117.4016	FIXED
Geoid Height:	-64.2681	

CONTROL MARK DATA

NAME OF MARK: F-735 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 15 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



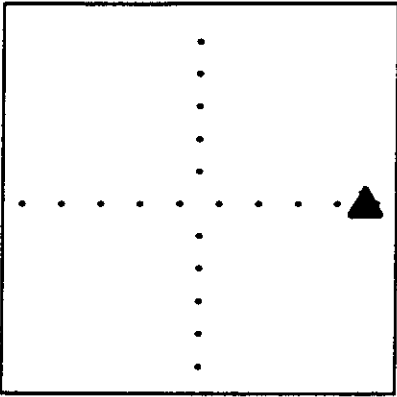
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK: F-735</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°16'08.890129"	ONE SIGMA ERROR
Longitude:	121°11'50.760859"	
Northing:	462708.8715	0.011
Easting:	3322505.1506	0.011
Convergence:	+ 0°03'35.8582"	
Scale Factor:	1.000160578344	
Ellipsoid Height:	2939.91	0.015
Orthometric Height:	3005.1444	FIXED
Geoid Height:	-65.2344	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: FIRST 1945 GIS # 0063 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 18 S.- R. 10 E., SEC. 1</p>	<p>LATITUDE: 44° 02' 28.04986" N LONGITUDE: 121° 27' 56.09387" W</p> <p>----- EC CARTESIAN ----- X: -2397639.383 METERS Y: -3917872.764 METERS Z: +4412343.322 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1389.332 METERS NGVD 29 : 1408.692 METERS NAVD 88 : 1409.908 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 264219.363±.005 METERS EAST: 1422608.773±.004 METERS</p> <p>SCALE FACTOR: 1.000010712 CONVERGENCE: - 0° 39' 38.16 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - FIRST 1945
AGENCY INSCRIPTION - U. S. COAST AND GEOIDETIC SURVEY
THE STATION IS LOCATED ABOUT 8 MILES WEST OF BEND.

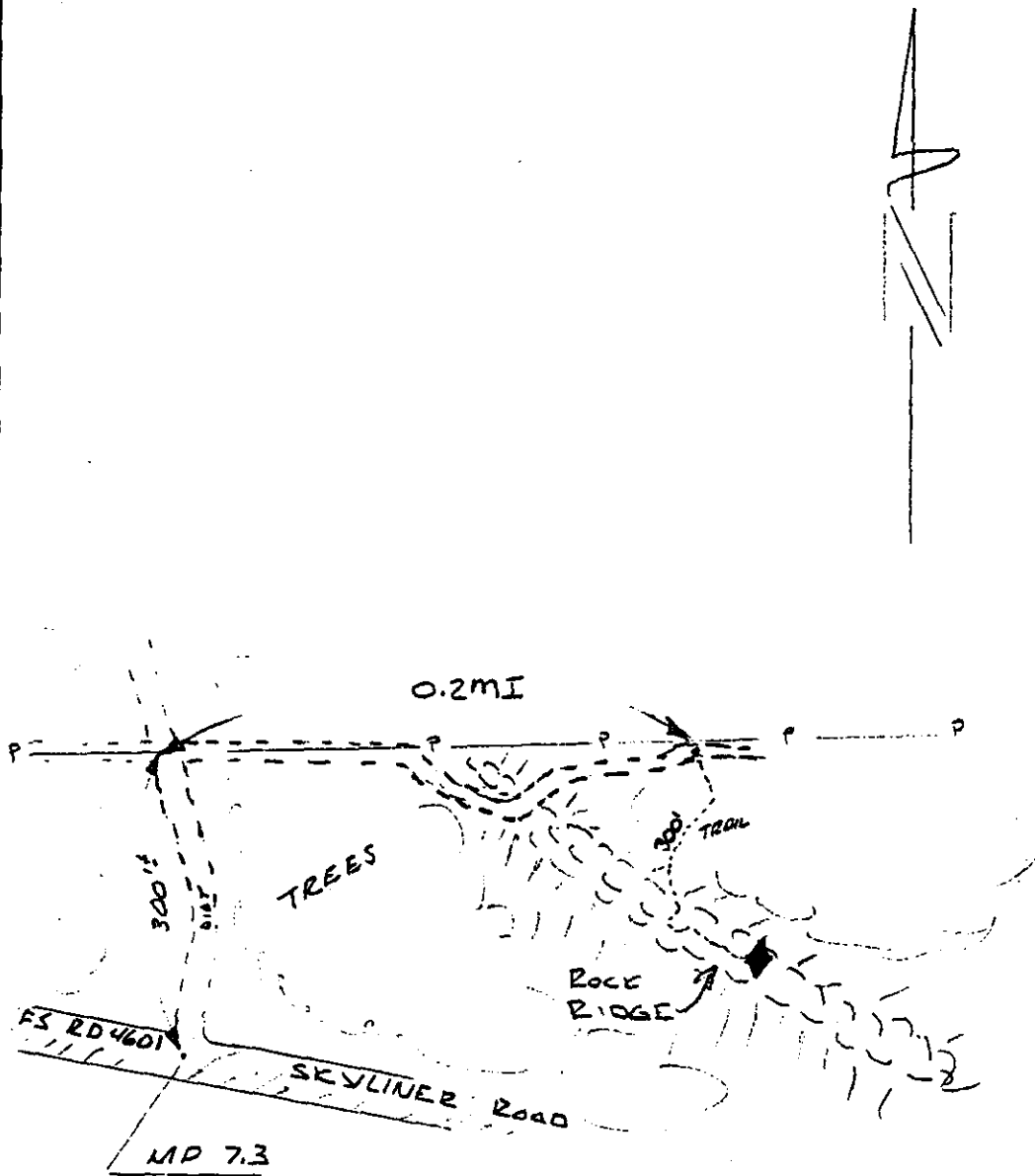
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED WEST ON 3RD ST. 0.5 MI. TO INTERSECTION WITH WALL ST. (GREENWOOD CHANGES TO NEWPORT AV.), PROCEED WESTERLY ON NEWPORT AV. 1.00 MI., TURN LEFT ON W. 14TH ST & PROCEED SO. 0.40 MI., TURN RIGHT ON GALVESTON AV. & PROCEED WESTERLY (0.4 MI. CHANGES TO SKLINER RD. (FS RD 4601)) 7.4 MI. TURN RIGHT ON DIRT RD., PROCEED NORTHERLY 0.05 MI. TURN RIGHT ON POWER & WATER LINE RD, PROCEED EASTERLY 0.2 MI PARK ON DOWN SLOPE NEAR POWER LINE CROSSES RD, PACK SOUTHEASTERLY 300 FT TO HIGH ROCK RIDGE, MARK IS ON HIGHEST PART.

THE STATION MARK IS A 3 1/2 IN. USC&GS BRASS CAP GROUTED INTO A MASS OF ROCK. ROCK RIDGE RUNS S.70 E.
360 DEG. OF 15 DEG MASK FOR GPS

Location and reference sketch:

Name: FIRST 1945

GIS #: 63



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

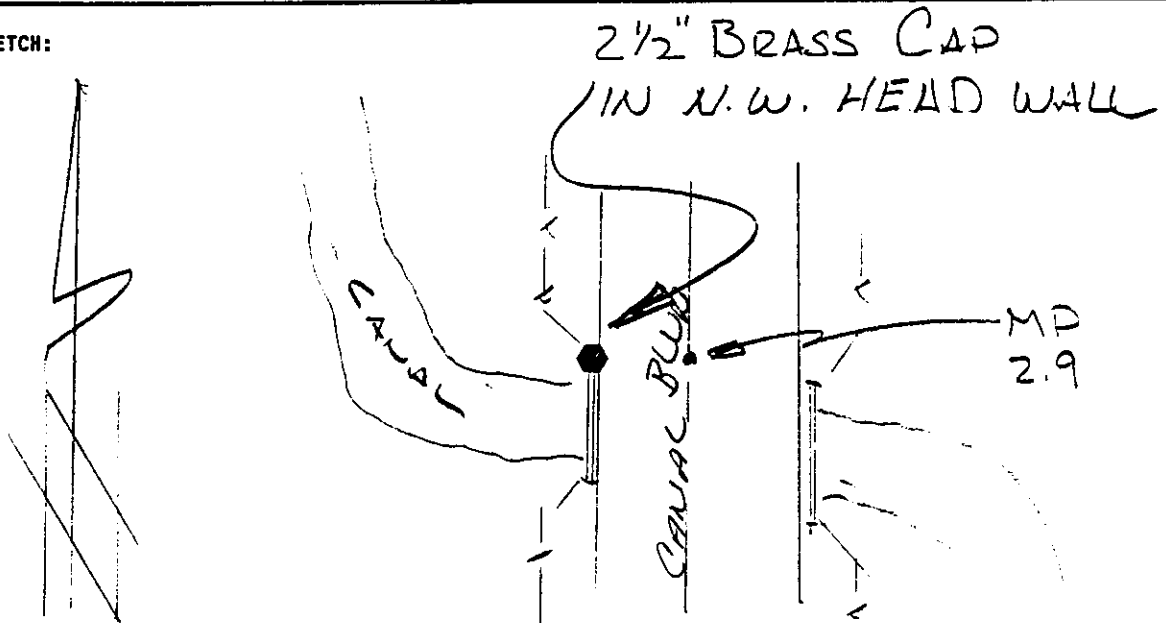
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: G-111 COUNTY: DESCHUTES
 MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
 DATE OF MARK: 1926 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

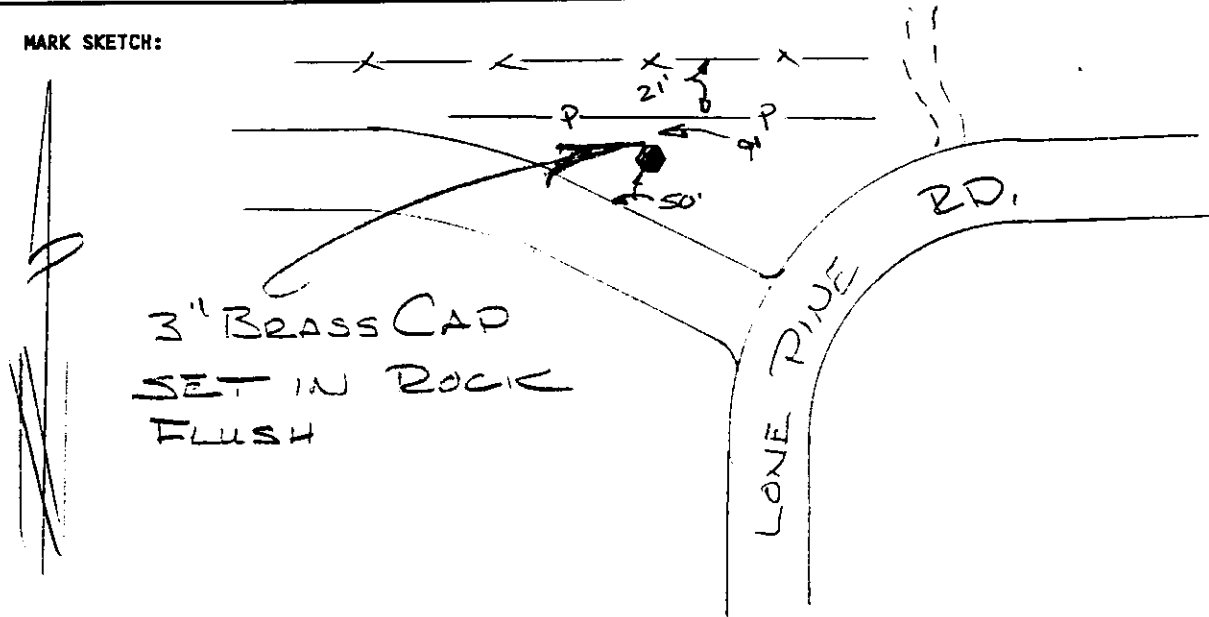
GEODETTIC AND MAPPING COORDINATES

<u>MARK: G-111</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°19'06.724701"	ONE SIGMA ERROR
Longitude:	121°10'07.475841"	
Northing:	480729.6631	0.010
Easting:	3329996.6528	0.010
Convergence:	+ 0°04'48.2089"	
Scale Factor:	1.000161027455	
Ellipsoid Height:	2887.0139	0.013
Orthometric Height:	2952.1522	FIXED
Geoid Height:	-65.1383	

CONTROL MARK DATA

NAME OF MARK: G-455 COUNTY: CROOK
MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
DATE OF MARK: 1953 COUNTRY: U.S.A.
LOCATION: SECTION 19 TOWNSHIP 14 S. RANGE 14 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

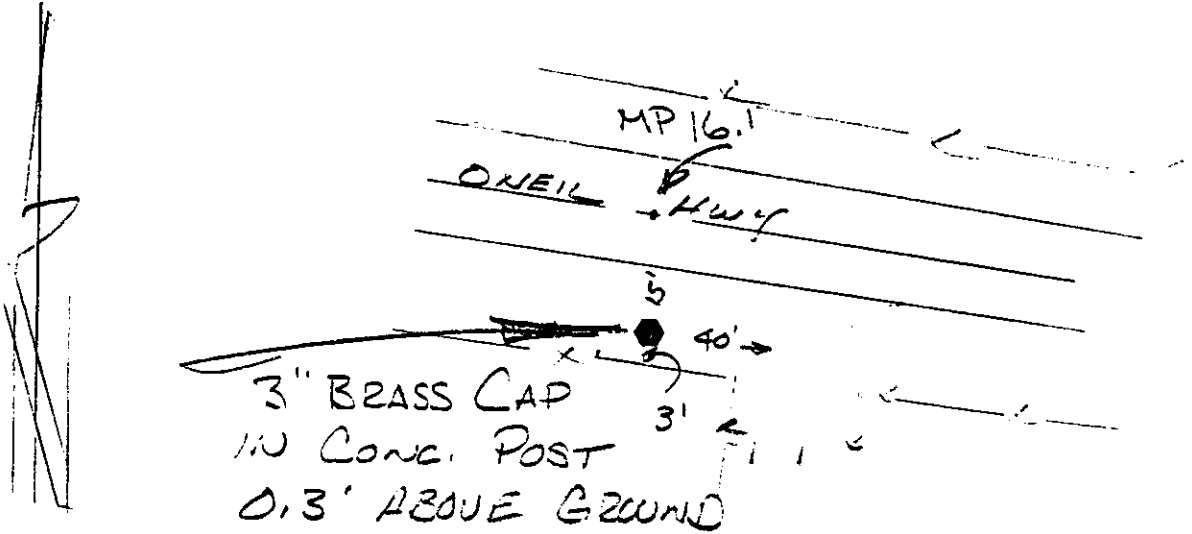
GEODETIC AND MAPPING COORDINATES

MARK: <u>G-455</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°20'56.251613"	ONE SIGMA ERROR
Longitude:	121°05'18.980639"	
Northing:	491862.5131	0.015
Easting:	3350948.2064	0.014
Convergence:	+ 0°08'10.0321"	
Scale Factor:	1.000162963962	
Ellipsoid Height:	2773.312	0.021
Orthometric Height:	2838.0821	0.053
Geoid Height:	-64.7701	

CONTROL MARK DATA

NAME OF MARK: G-457 COUNTY: CROOK
MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
DATE OF MARK: 1953 COUNTRY: U.S.A.
LOCATION: SECTION 35 TOWNSHIP 14 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

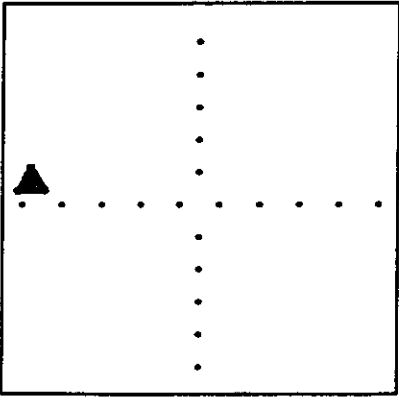
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

MARK: G-457 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°18'38.526205"</u>	ONE SIGMA ERROR
Longitude:	<u>120°53'25.134943"</u>	
Northing:	<u>478099.1913</u>	<u>0.013</u>
Easting:	<u>3402895.4757</u>	<u>0.013</u>
Convergence:	<u>+ 0°16'28.3605"</u>	
Scale Factor:	<u>1.000172089658</u>	
Ellipsoid Height:	<u>2778.7973</u>	<u>0.019</u>
Orthometric Height:	<u>2842.3647</u>	<u>0.071</u>
Geoid Height:	<u>-63.5674</u>	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0013 GIS # 0013 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 18 S.- R. 12 E., SEC. 5</p>	<p>LATITUDE: 44° 02' 39.71324" N LONGITUDE: 121° 19' 25.05079" W</p> <p>----- EC CARTESIAN ----- X: -2387685.327 METERS Y: -3923407.174 METERS Z: +4412398.193 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1095.966 METERS NGVD 29 : 1115.545 METERS NAVD 88 : 1116.715 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 264457.798±.002 METERS EAST: 1433989.701±.002 METERS</p> <p>SCALE FACTOR: 1.000011578 CONVERGENCE: - 0° 33' 48.53 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0013
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 1 MILE SOUTHWEST OF BEND.

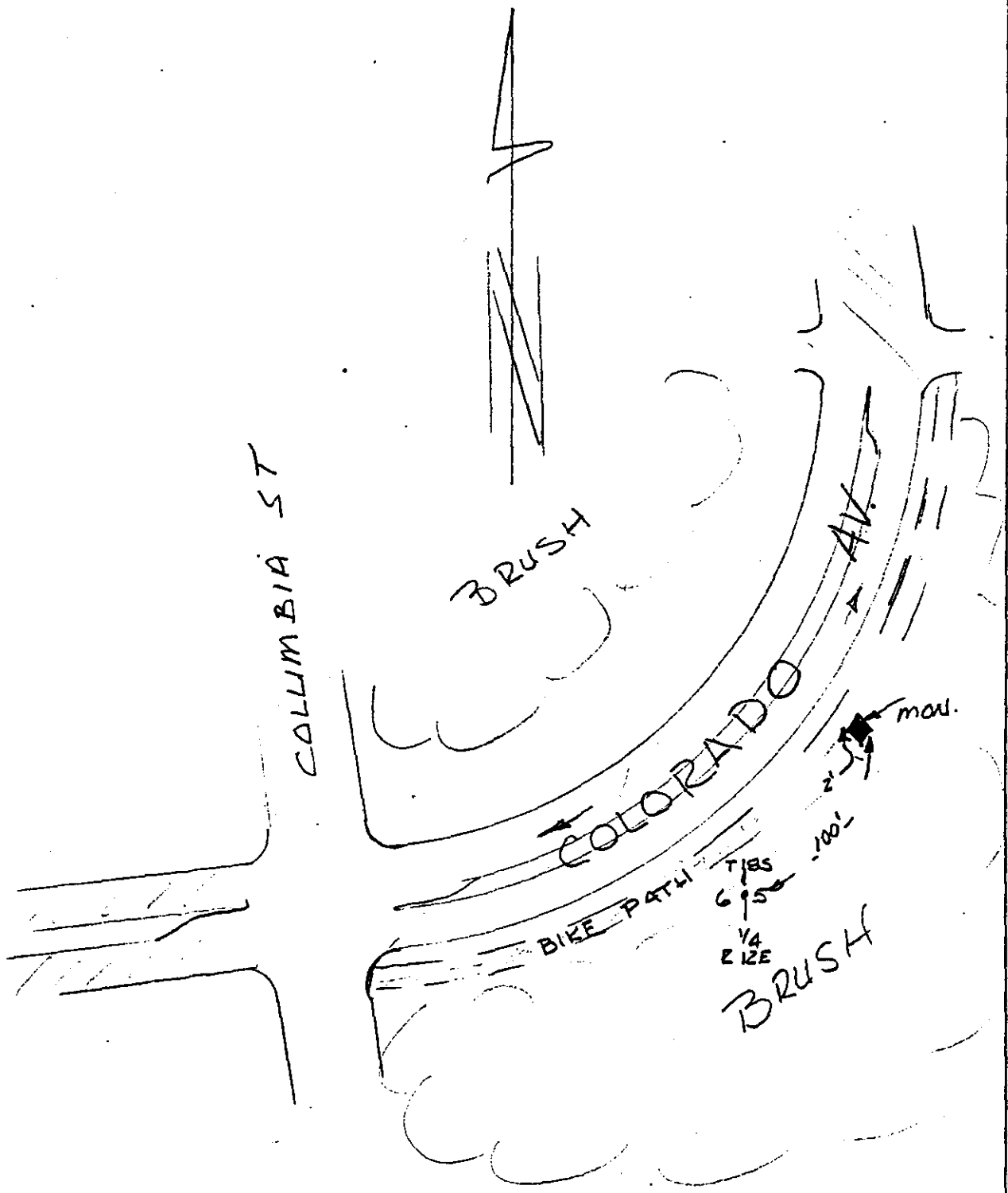
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 0.3 MI., TURN RIGHT ON FRANKLIN AVE & PROCEED 0.6 MI., TURN LEFT ON BOND ST. & PROCEED SOUTH FOR 0.4 MI., TURN RIGHT ON COLORADO AVE. AND PROCEED WESTERLY FOR 0.75 MI. TO THE STATION ON LEFT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL, 2 FT. SOUTH OF BIKE PATH, N 60 E 110 FT. FROM A 1 FT. PINE TREE, ABOUT 450 FEET EASTERLY FO THE INTERSECTION TO COLORADO AVE. AND COLUMBIA STREET.

Location and reference sketch:

Name: GIS 0013

GIS #: 13



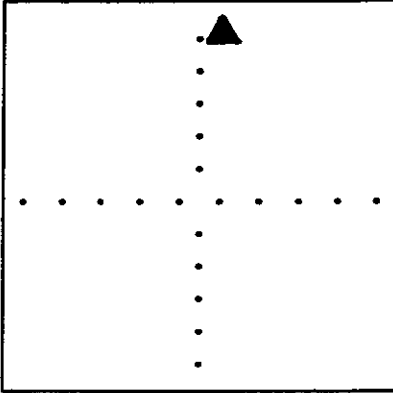
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0014 GIS # 0014 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 16 S.- R. 10 E., SEC. 1</p>	<p>LATITUDE: 44° 13' 05.76421" N LONGITUDE: 121° 28' 22.86345" W</p> <p>----- EC CARTESIAN ----- X: -2390836.142 METERS Y: -3905617.339 METERS Z: +4426185.915 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 975.793 METERS NGVD 29 : 995.758 METERS NAVD 88 : 996.918 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 283908.831±.005 METERS EAST: 1422241.497±.006 METERS</p> <p>SCALE FACTOR: 1.000062816 CONVERGENCE: - 0° 39' 56.47 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0014
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 6.8 MILES SOUTHEAST OF SISTERS

TO REACH THE STATION FROM SISTERS, START AT THE INTERSECTION OF FIR STREET AND US HWY 20, PROCEED EAST ON HWY 20 FOR 5.33 MILES, TURN RIGHT ON GIST COUNTY ROAD & PROCEED SOUTH FOR 1.5 MI. TO THE STATION ON THE RIGHT.

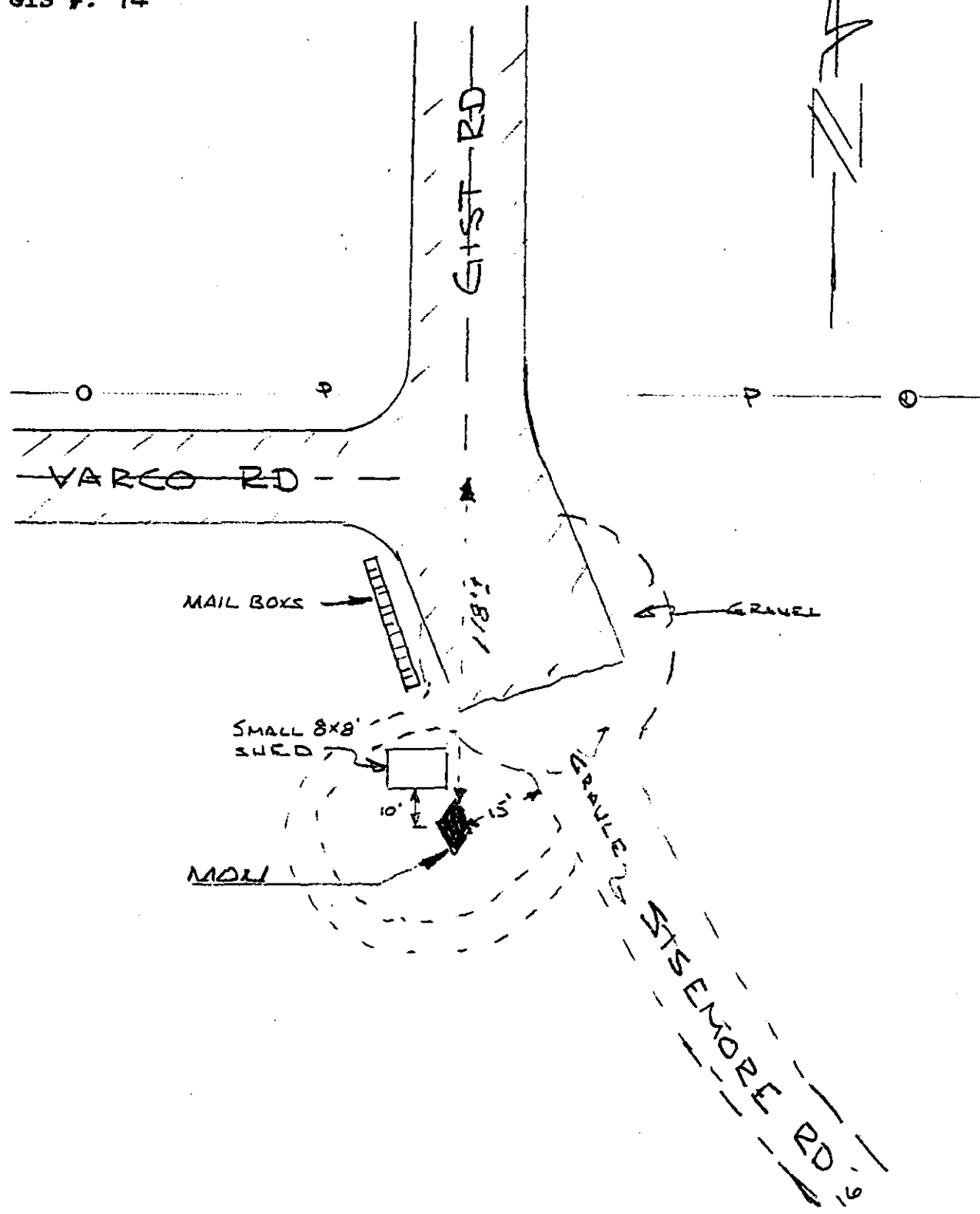
THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 125 FEET SOUTH OF THE INTERSECTION OF GIST AND VARCO ROAD. 15 FEET WESTERLY OF THE EDGE OF GIST ROAD.

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

Location and reference sketch:

Name: GIS 2014

GIS #: 14



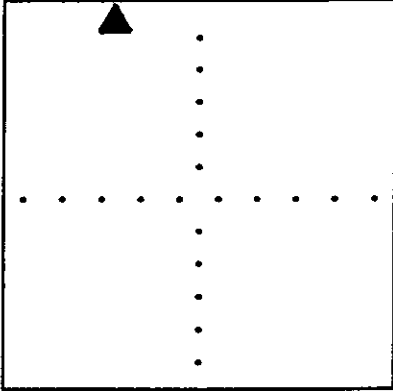
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0015 GIS # 0015 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 15 S.- R. 10 E., SEC. 8</p>	<p>LATITUDE: 44° 17' 28.46777" N LONGITUDE: 121° 33' 59.46777" W</p> <p>----- EC. CARTESIAN ----- X: -2394235.874 METERS Y: -3896875.437 METERS Z: +4431979.574 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 954.379 METERS NGVD 29 : 974.430 METERS NAVD 88 : 975.585 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 292108.346±.003 METERS EAST: 1414873.021±.003 METERS</p> <p>SCALE FACTOR: 1.000087100 CONVERGENCE: - 0° 43' 46.76 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0015
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 0.6 MILES WEST OF SISTERS

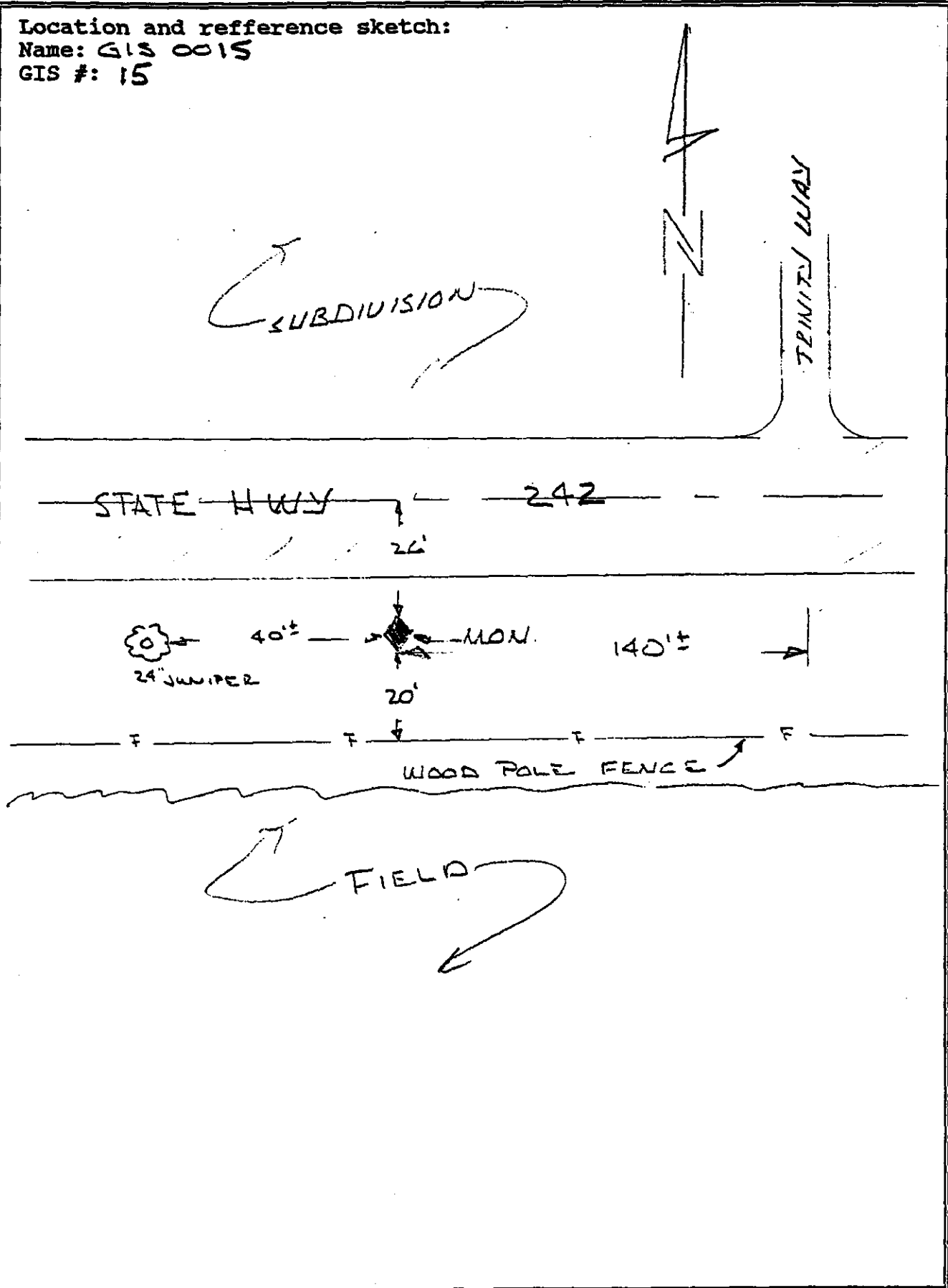
TO REACH THE STATION FROM SISTERS, START AT THE INTERSECTION OF OREGON HWY 242 AND US HWY 20, PROCEED WEST ON HWY 242 FOR 0.6 MILES TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE AT GROUND LEVEL.
17 FEET SOUTH OF SOUTH EDGE OF PAVEMENT.
1 FOOT NORTH OF A WITNES POST.
22 FEET NORTH OF A WOOD POLE FENCE.

Location and reference sketch:

Name: GIS 0015

GIS #: 15



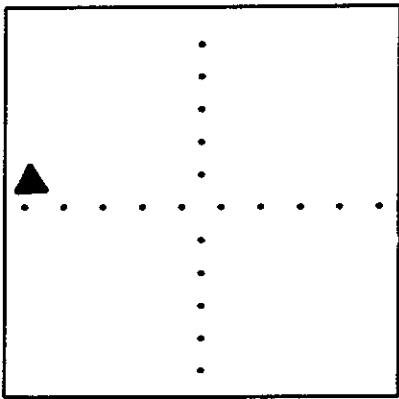
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0016 GIS # 0016 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 16 S.- R. 11 E., SEC.27</p>	<p>LATITUDE: 44° 09' 39.45957" N LONGITUDE: 121° 24' 13.39777" W</p> <p>----- EC CARTESIAN ----- X: -2388441.433 METERS Y: -3912323.745 METERS Z: +4421652.053 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1022.753 METERS NGVD 29 : 1042.624 METERS NAVD 88 : 1043.792 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 277479.106±.003 METERS EAST: 1427710.335±.003 METERS</p> <p>SCALE FACTOR: 1.000044900 CONVERGENCE: - 0° 37' 05.80 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0016
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 8.4 MILE NORTHWEST OF BEND.

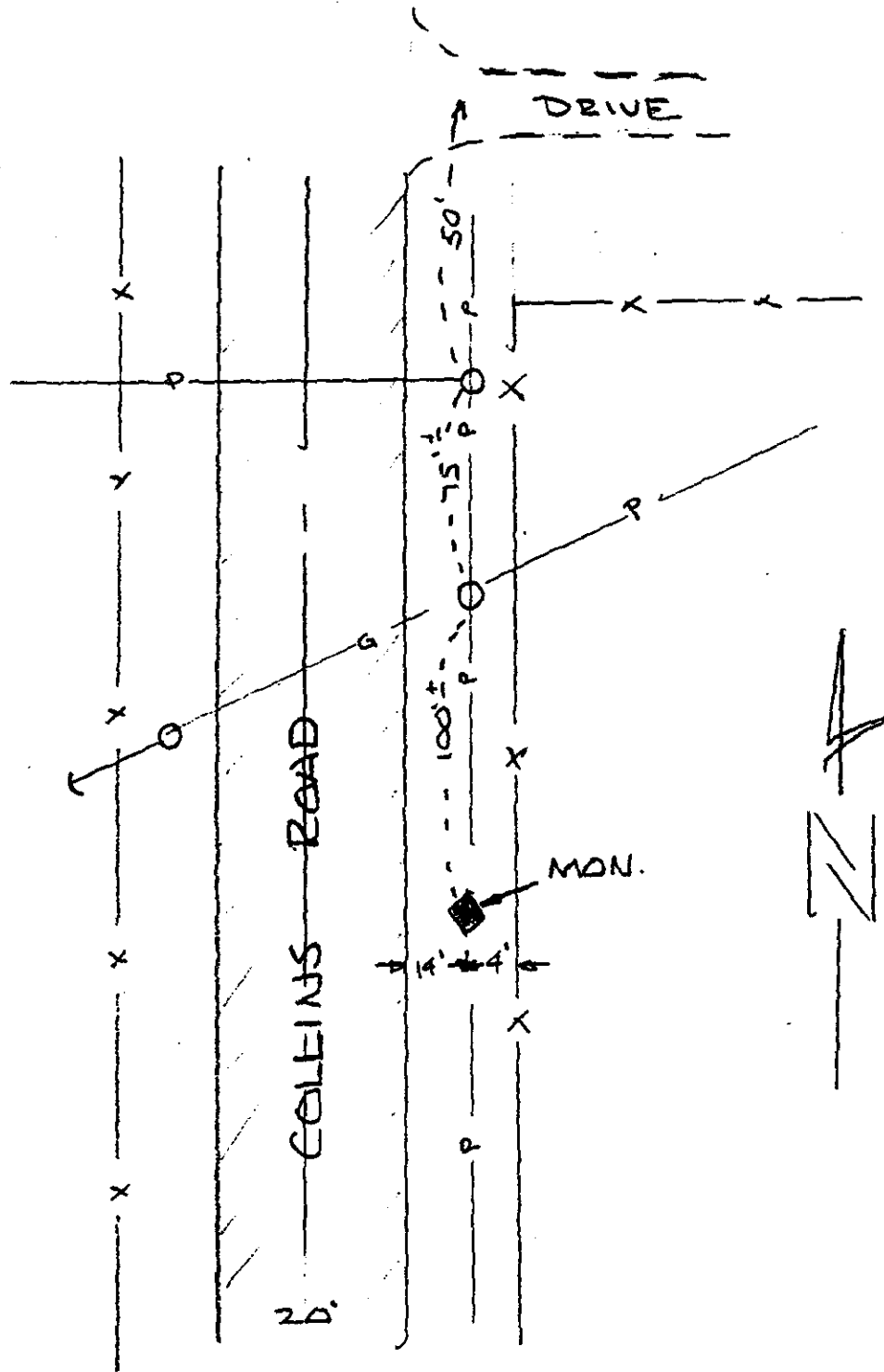
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 2.5 MI., TURN LEFT (TAKE HWY 20 OVERPASS) PROCEED 2.5 MI. ON HWY 20, TURN LEFT ON COUCH MARKET RD. PROCEED WEST 1.9 MI., TURN LEFT ON COLLINS RD. PROCEED SOUTH 0.44 MI. TO THE STATION ON THE LEFT

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK GROUTED IN A LARGE BOULDER. 17 FEET EAST OF THE EAST EDGE OF COLLINS ROAD. 4 FEET WEST OF A WIRE FENCE.

Location and reference sketch:

Name: GIS 0016

GIS #: 116



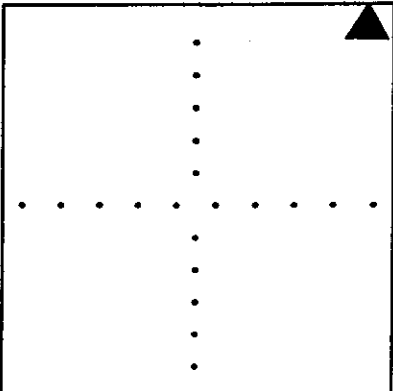
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0017 GIS # 0017 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 15 S.- R. 11 E., SEC. 7</p>	<p>LATITUDE: 44° 17' 28.24496" N LONGITUDE: 121° 27' 11.77487" W</p> <p>----- EC CARTESIAN ----- X: -2386518.847 METERS Y: -3901583.831 METERS Z: +4431951.301 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 920.942 METERS NGVD 29 : 941.081 METERS NAVD 88 : 942.202 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 291992.466±.004 METERS EAST: 1423911.715±.004 METERS</p> <p>SCALE FACTOR: 1.000087078 CONVERGENCE: - 0° 39' 07.84 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0017
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 4.5 MILES EAST OF SISTERS

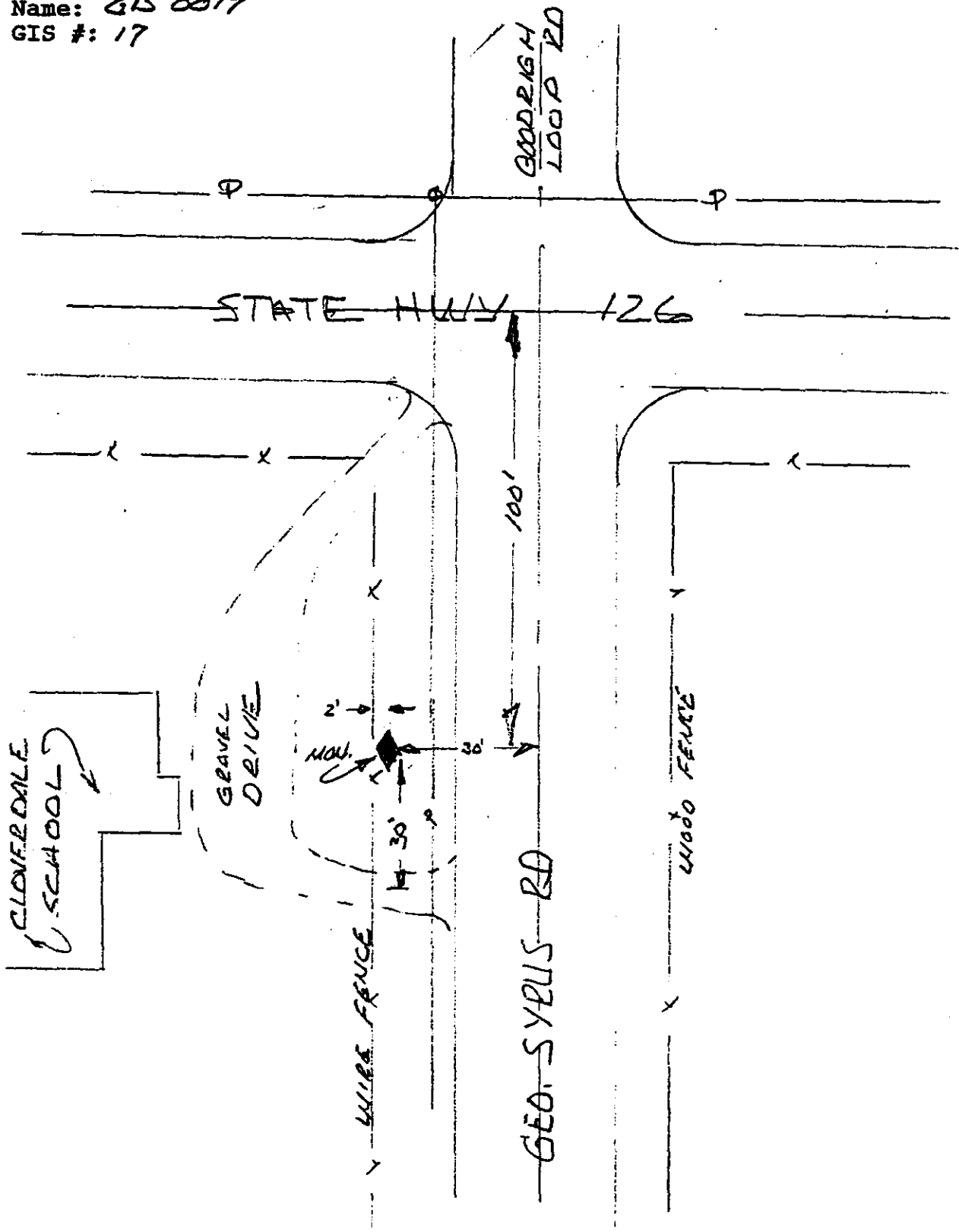
TO REACH THE STATION FROM SISTERS, START AT THE INTERSECTION OF FIR STREET AND US HWY 20, PROCEED EAST ON US HWY 20 FOR 0.5 MILES TO THE Y INTERSECTION WITH OREGON HWY 126, TURN LEFT ON HWY 126 AND PROCEED 4.35 MILES, TURN RIGHT ON GEO. CYRUS COUNTY ROAD AND PROCEED 85 FEET TO THE STATION ON THE RIGHT BEING EAST OF THE OLD CLOVERDALE SCHOOL.

THE STATION MARK IS A 3 1/2 IN. STANDATD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 85.3 FEET SOUTH OF PAVEMENT EDGE OF HWY 126. 18.8 FEET WEST OF THE PAVEMENT EDGE OF CYRUS ROAD. 1.8 FEET EAST OF A WIRE FENCE. 1 FOOT EASTERLY FROM A WITNES POST.

Location and reference sketch:

Name: GIS 0017

GIS #: 17



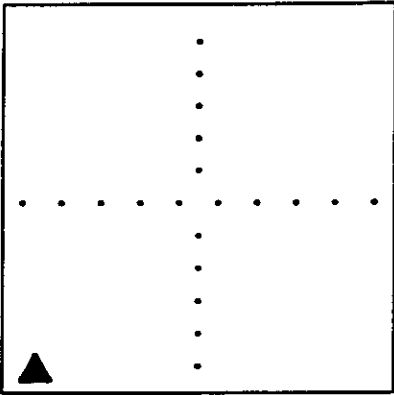
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0018 GIS # 0018 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 15 S.- R. 12 E., SEC. 5</p>	<p>LATITUDE: 44° 17' 32.85073" N LONGITUDE: 121° 19' 52.75680" W</p> <p>----- EC CARTESIAN ----- X: -2378152.527 METERS Y: -3906561.342 METERS Z: +4432043.535 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 907.281 METERS NGVD 29 : 927.382 METERS NAVD 88 : 928.486 METERS</p> <p>---- SPC -- OREGON SOUTH ---- NORTH: 292030.924±.004 METERS EAST: 1433646.561±.004 METERS</p> <p>SCALE FACTOR: 1.000087519 CONVERGENCE: - 0° 34' 07.49 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0018
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 11 MILES EAST OF SISTERS

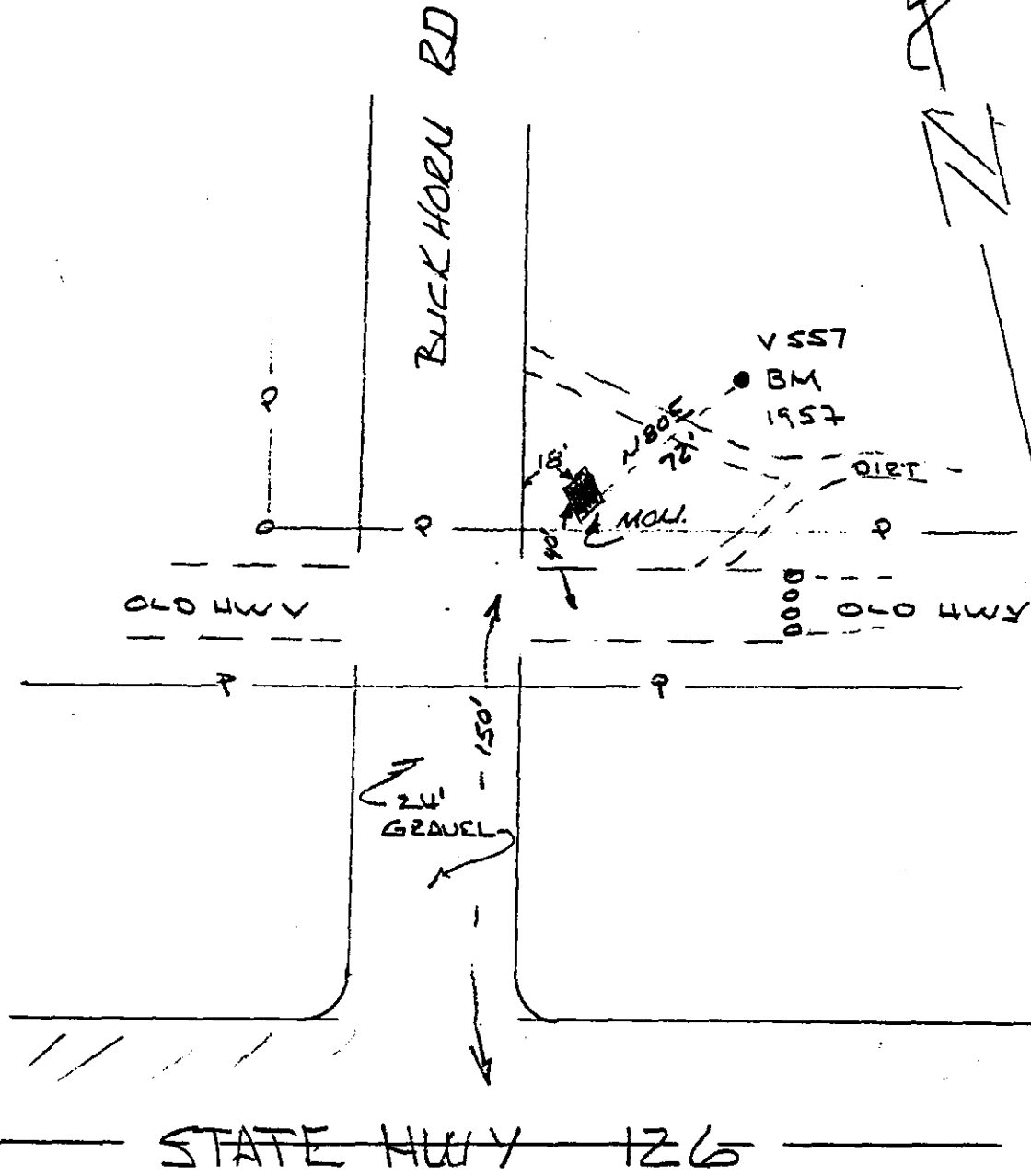
TO REACH THE STATION FROM SISTERS, START AT THE INTERSECTION OF FIR STREET AND US HWY 20, PROCEED EAST ON US HWY 20 FOR 0.5 MILES TO THE Y INTERSECTION WITH OREGON HWY 126, TURN LEFT ON HWY 126 AND PROCEED 10.6 MILES, TURN RIGHT ON BUCKHORN COUNTY ROAD AND PROCEED NORTH 264 FEET TO THE STATION ON THE RIGHT

THE STATION MARK IS A 3 1/2 IN. STANDATD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 264 FEET NORTH OF PAVEMENT EDGE OF HWY 126, 20 FEET EAST OF EAST EDGE OF BUCKHORNE ROAD AND 33 FEET NORTH OF THE EDGE OF PAVEMENT OF THE OLD LOCATION OF HWY 126.

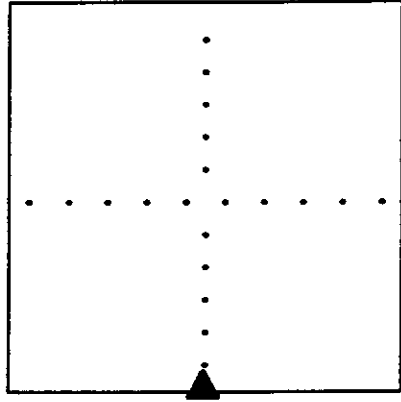
Location and reference sketch:

Name: G.I.S. 0018

GIS #: 18



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: 14120801 V010 GIS # 0019 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: -NGVD-29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 14 S.- R. 12 E., SEC. 6</p>	<p>LATITUDE: 44° 22' 42.08203" N LONGITUDE: 121° 20' 30.79565" W</p> <p>----- EC CARTESIAN ----- X: -2375371.634 METERS Y: -3900373.564 METERS Z: +4438812.881 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 823.388 METERS NGVD 29 : 843.597 METERS NAVD 88 : 844.695 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 301584.683±.003 METERS EAST: 1432899.176±.003 METERS</p> <p>SCALE FACTOR: 1.000118249 CONVERGENCE: - 0° 34' 33.51 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - T14S R12E 1/4 6/7 1988 LS1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 9.0 MILES NORTHWEST OF TERREBONNE

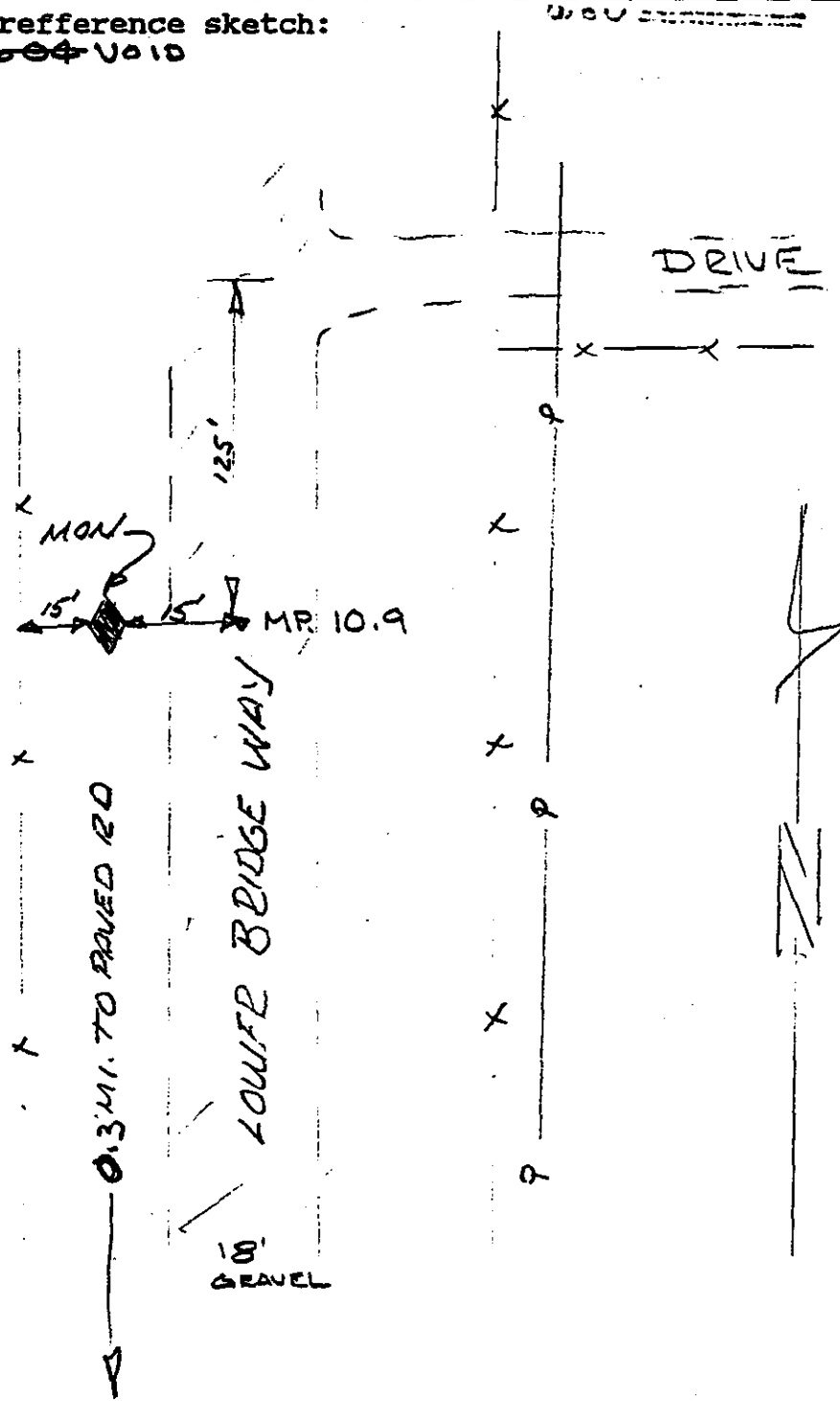
TO REACH THE STATION FROM TERREBONNE, START AT THE INTERSECTION OF US HWY 97 AND SMITHROCK WAY IN TERREBONNE, PROCEED NORTH ON HWY 97 0.55 MI., TURN LEFT ON LOWER BRIDGE COUNTY ROAD AND PROCEED NORTHWESTERLY ,(6.2 MILES BRIDGE OVER DESCHUTES RIVER), (10.7 HOMES RD. ON LEFT), 11.00 MILES TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE AT GROUND LEVEL.
18 FEET EAST OF A WIRE FENCE RUNNING NORTH SOUTH.
4 FEET WESTERLY OF THE EDGE OF LOWERBRIDGE ROAD.
S 12 E 126 FEET FROM A 1 FOOT JUINPER.
S 26 W 127 FEET FROM POWER POLE.

Location and reference sketch:

Name: ~~1420604~~ Void

GIS #: 19



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

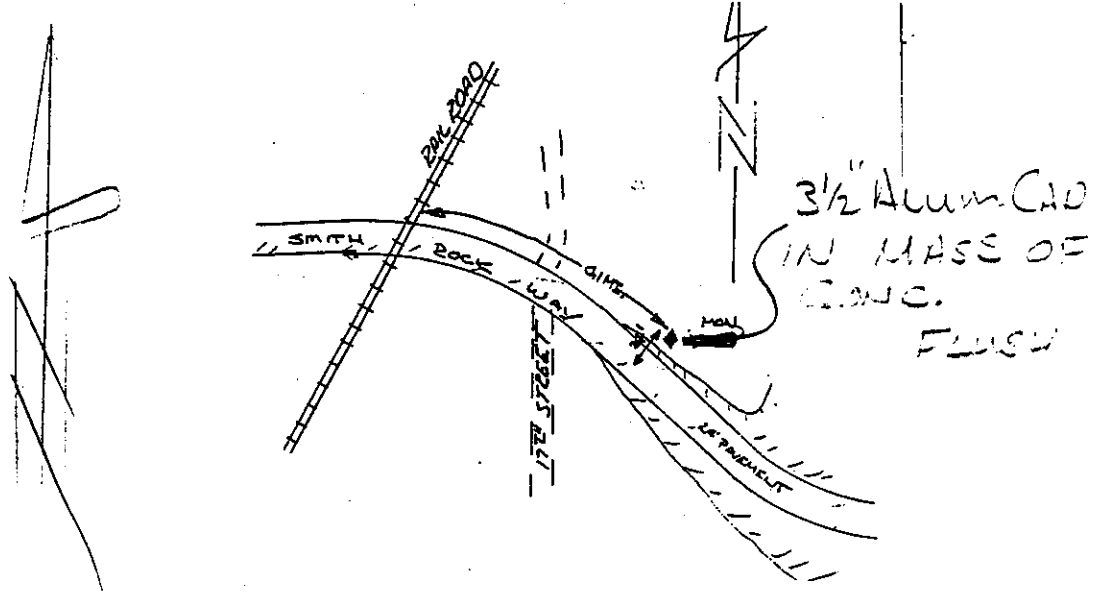
Bend, Oregon. 97702

(503) 383-4205

CONTROL MARK DATA

NAME OF MARK: GIS 0021 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 5

MARK SKETCH:



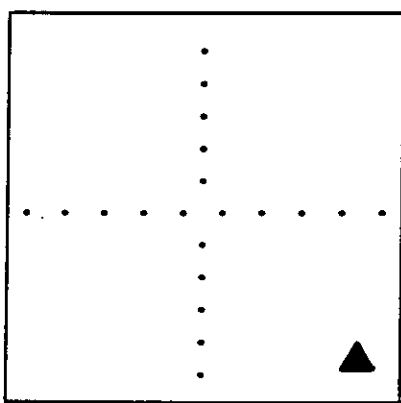
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN: W	121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN: N	43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>GIS 0021</u>	HORIZONTAL ORDER:	FIRST
	Latitude:	44°21'01.231340"	ONE SIGMA ERROR
	Longitude:	121°10'16.763540"	FIXED
	Northing:	492326.3839	FIXED
	Easting:	3329305.4539	FIXED
	Convergence:	+ 0°04'41.8802"	
	Scale Factor:	1.000160980643	
	Ellipsoid Height:	2801.893	FIXED
	Orthometric Height:	2866.9948	FIXED
	Geoid Height:	-65.1018	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0021 GIS # 0021 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 14 S.- R. 13 E., SEC.16</p>	<p>LATITUDE: 44° 21' 01.23134" N LONGITUDE: 121° 10' 16.76354" W</p> <p>----- EC CARTESIAN ----- X: -2364888.148 METERS Y: -3909308.876 METERS Z: +4436608.563 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 854.017 METERS NGVD 29 : 873.98786 METERS NAVD 88 : 874.98955 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 298348.707±.004 METERS EAST: 1446468.362±.004 METERS</p> <p>SCALE FACTOR: 1.000107975 CONVERGENCE: - 0° 27' 33.42 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0021
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 0.2 MILES EAST OF TERREBONNE

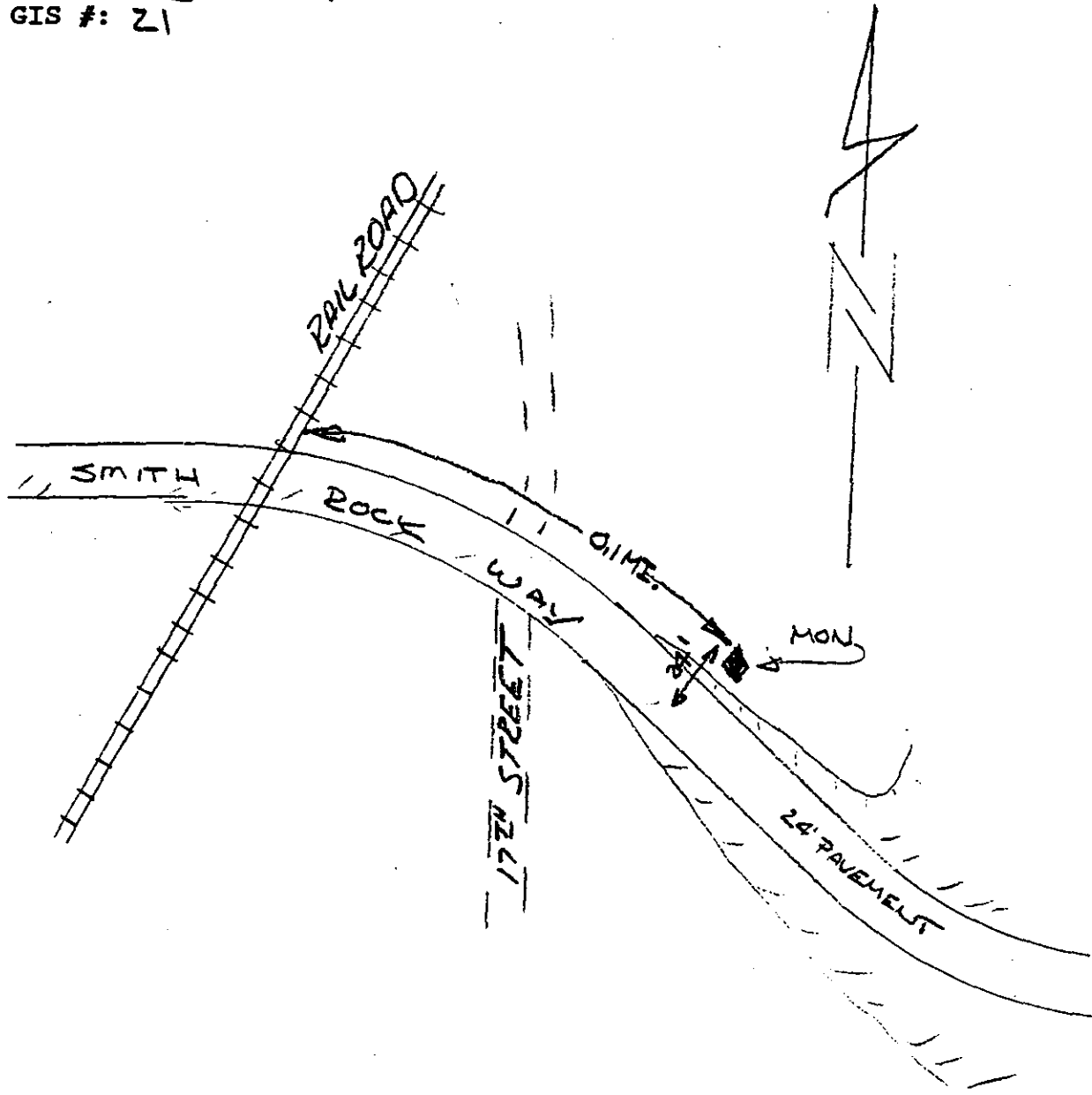
TO REACH THE STATION FROM TERREBONNE, START AT THE INTERSECTION OF US HWY 97 AND SMITH ROCK WAY, PROCEED EAST ON SMITH ROCK WAY FOR 0.38 MILES TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. STANDATD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.4 FT. ABOVE GROUND LEVEL. 17 FEET NORTH OF THE NORTH EDGE OF SMITH ROCK WAY.

Location and reference sketch:

Name: GIS 0021

GIS #: 21



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

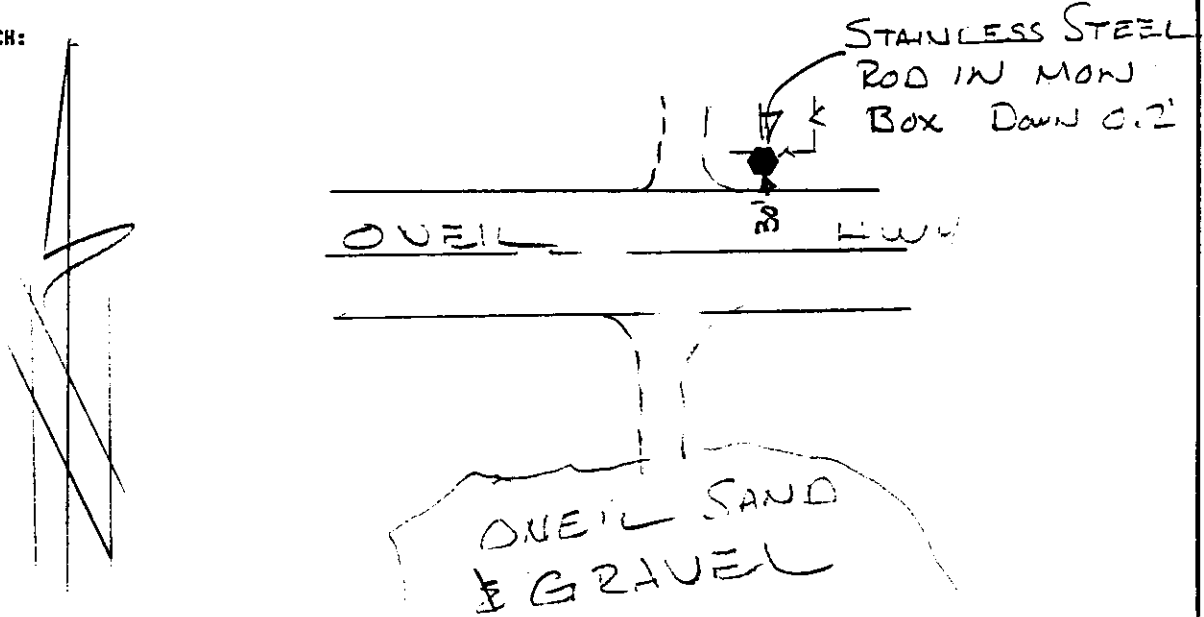
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: K-752 COUNTY: CROOK
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1958 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 14 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

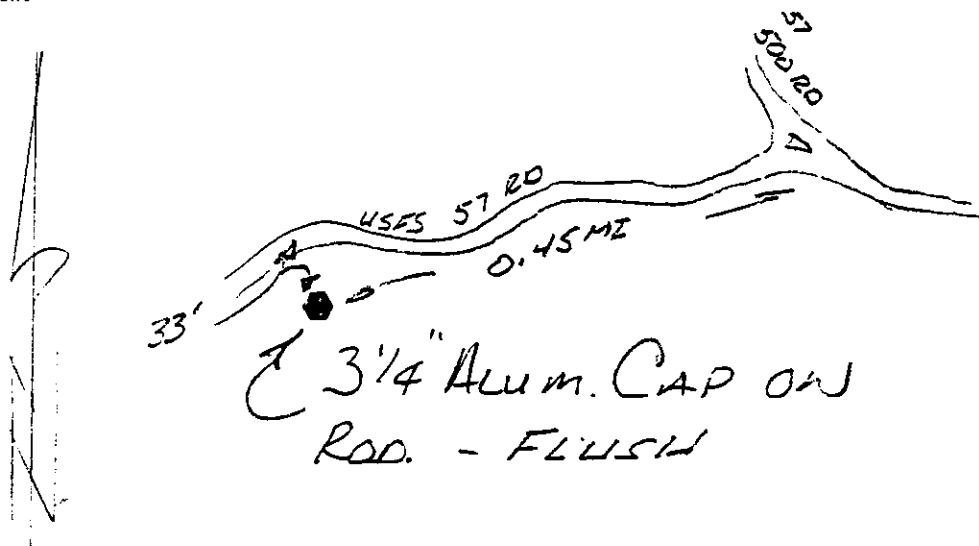
GEODETIC AND MAPPING COORDINATES

<u>MARK: K-752</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°19'48.334073"	ONE SIGMA ERROR
Longitude:	121°05'27.688621"	
Northing:	484982.0737	0.012
Easting:	3350331.4704	0.012
Convergence:	+ 0°08'03.7820"	
Scale Factor:	1.000162892651	
Ellipsoid Height:	2737.5465	0.017
Orthometric Height:	2802.3753	FIXED
Geoid Height:	-64.8288	

CONTROL MARK DATA

NAME OF MARK: KINGS GAP (USFS) COUNTY: JEFFERSON
MARK SET BY: U.S. GOVERNMENT (USFS) STATE: OREGON
DATE OF MARK: 1991 COUNTRY: U.S.A.
LOCATION: SECTION 19 TOWNSHIP 13 S. RANGE 14 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

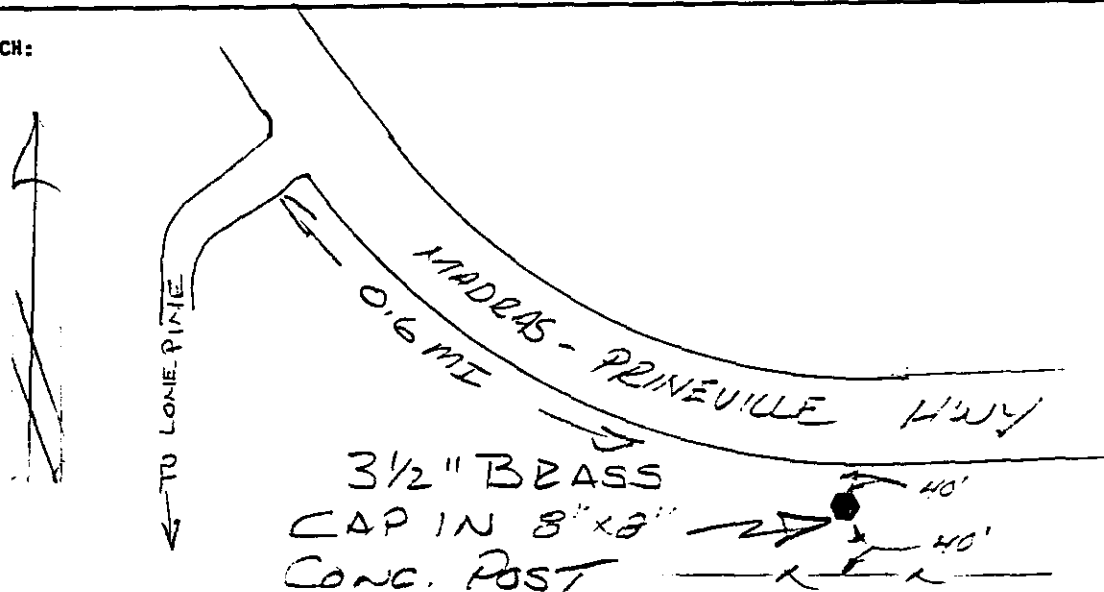
GEODETIC AND MAPPING COORDINATES

MARK:	<u>KINGS GAP (USFS)</u>	HORIZONTAL ORDER:	<u>FIRST</u>	
Latitude:	44°25'51.317512"			ONE SIGMA ERROR
Longitude:	121°06'04.463534"			
Northing:	521740.5687			0.011
Easting:	3347576.1886			0.010
Convergence:	+ 0°07'38.9083"			
Scale Factor:	1.000162584554			
Ellipsoid Height:	3774.7673			0.017
Orthometric Height:	3839.0793			0.072
Geoid Height:	-64.312			

CONTROL MARK DATA

NAME OF MARK: L-367 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1942 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 13 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

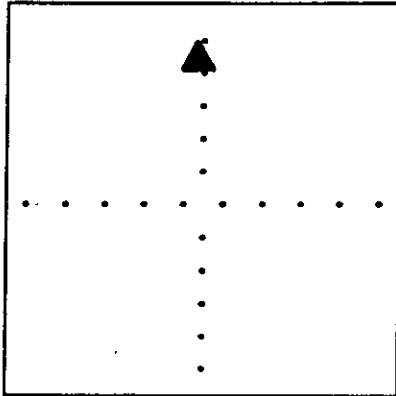
<u>MARK: L-367</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°25'29.835877"	ONE SIGMA ERROR
Longitude:	121°01'37.826961"	
Northing:	519616.6037	0.014
Easting:	3366934.4058	0.014
Convergence:	+ 0°10'45.4998"	
Scale Factor:	1.000165115717	
Ellipsoid Height:	3090.9252	0.021
Orthometric Height:	3154.7999	FIXED
Geoid Height:	-63.8747	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: LAVA BUTTE 1933 1984
GIS # 0055
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 19 S.- R. 11 E., SEC.24

LATITUDE: 43° 55' 04.28799" N
LONGITUDE: 121° 21' 21.71654" W

----- EC CARTESIAN -----
X: -2395139.608 METERS
Y: -3930648.053 METERS
Z: +4402569.531 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1510.666 METERS
NGVD 29 : 1529.937 METERS
NAVD 88 : 1531.127 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 250428.210±.004 METERS
EAST: 1431248.809±.006 METERS

SCALE FACTOR: 0.999980163
CONVERGENCE: - 0° 35' 08.35 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - LAVA BUTTE 1933 1984
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 10 MILE SOUTH OF BEND.

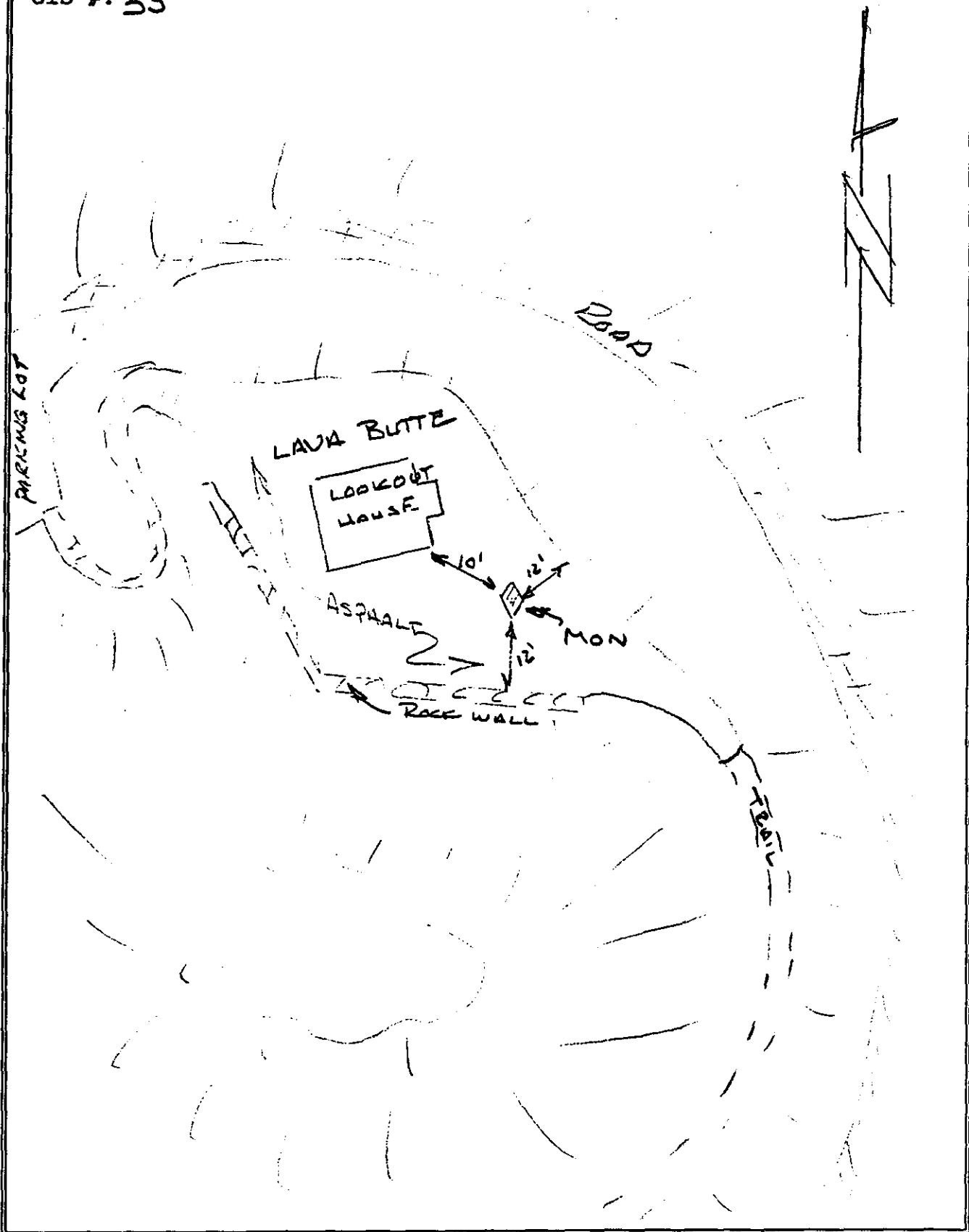
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 FOR 11.1 MI TO THE ENTRANCE OF LAVA BUTTE VISITOR CENTER, TURN RIGHT AND PROCEED 400 FEET WEST TO VISITO CENTER, TURN RIGH ON ROAD TO TOP OF LAVA BUTTE, PROCEED 1.3 MI. TO PARKING LOT ON TOP OF BUTTE, THE STATION IS 300 FEET UP HILL ALONG A FOOT PATH BY THE LOOKOUT HOUSE.

THE STATION MARK IS A 3 1/2 IN. DISK SET IN CONCRETE FLUSH WITH ASPHALT WALK AREA.
10 FEET SOUTHERLY FROM SOUTHEAST CORNER OF LOOKOUT HOUSE

Location and reference sketch:

Name: LAVA BUTTE RESET 1984 (1933)

GIS #: 55



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

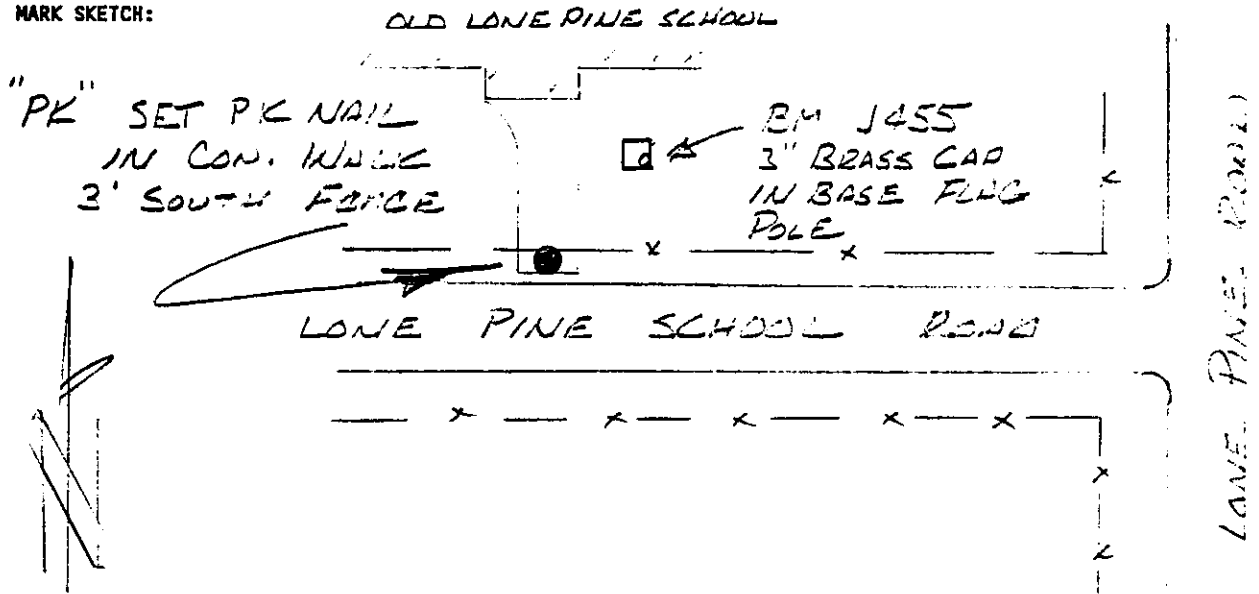
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: LONE PINE SCHOOL PK COUNTY: CROOK
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1994 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 14 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 14

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

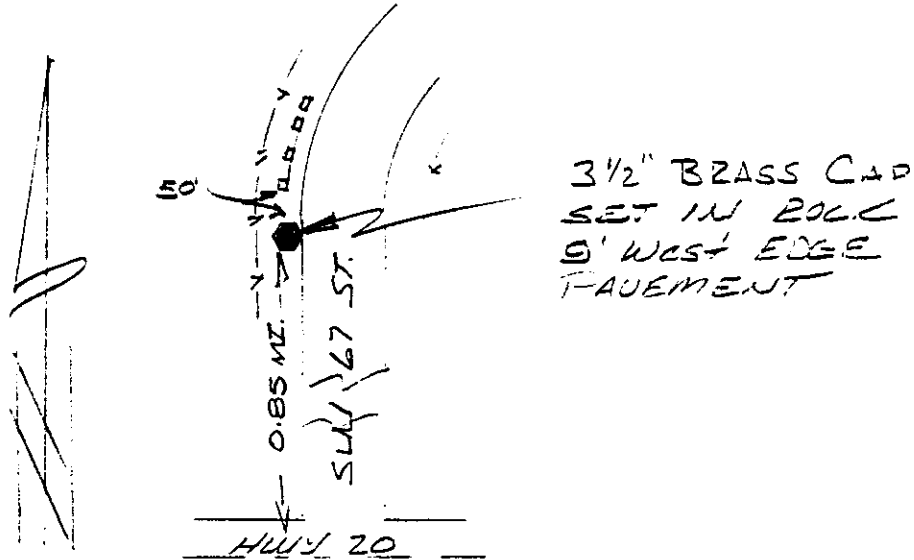
GEODETTIC AND MAPPING COORDINATES

<u>MARK: LONE PINE SCHOOL</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°22'40.876596"	ONE SIGMA ERROR
Longitude:	121°04'07.132269"	
Northing:	502472.4133	0.013
Easting:	3356142.1908	0.013
Convergence:	+ 0°09'00.5367"	
Scale Factor:	1.000163599074	
Ellipsoid Height:	2812.2452	0.019
Orthometric Height:	2876.7454	FIXED
Geoid Height:	-64.5002	

CONTROL MARK DATA

NAME OF MARK: M-419 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1946 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 15 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

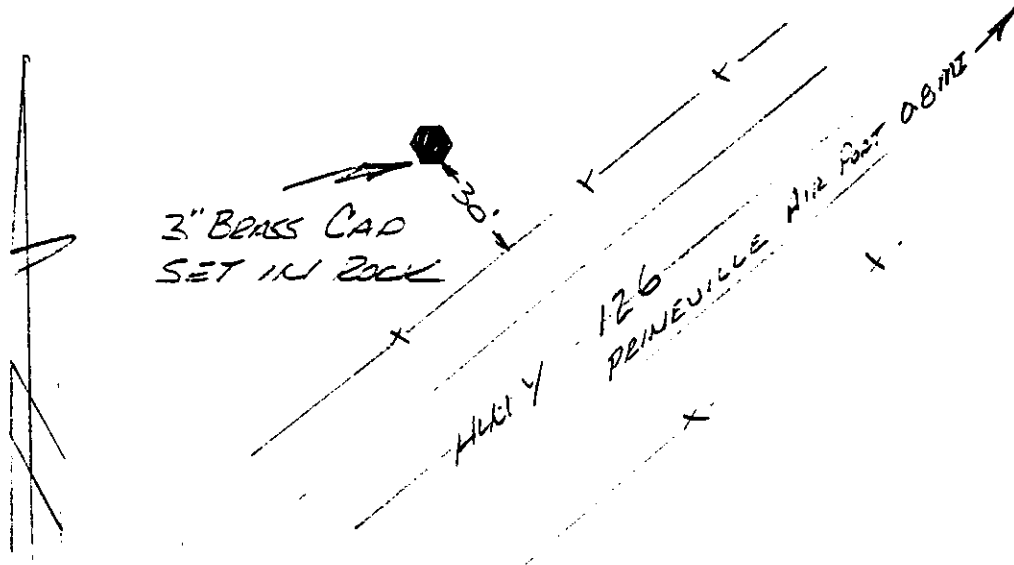
GEODETIC AND MAPPING COORDINATES

<u>MARK: M-419</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°17'08.077392"	ONE SIGMA ERROR
Longitude:	121°15'02.369311"	
Northing:	468693.443	0.016
Easting:	3308558.2901	0.016
Convergence:	+ 0°01'22.1339"	
Scale Factor:	1.000160083636	
Ellipsoid Height:	2842.7424	0.023
Orthometric Height:	2908.2907	FIXED
Geoid Height:	-65.5483	

CONTROL MARK DATA

NAME OF MARK: N-463 **COUNTY:** CROOK
MARK SET BY: U.S. C. & G.S. **STATE:** OREGON
DATE OF MARK: 1936 **COUNTRY:** U.S.A.
LOCATION: SECTION 14 TOWNSHIP 15 S. RANGE 15 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1994
FIELD METHOD: GPS **FIELD EQUIPMENT:** TRIMBLE 4000ST **ADJUSTED WITH:** TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) **CENTRAL MERIDIAN:** W 121°17'00.000000"
VERTICAL= NGVD 29 **LATITUDE OF ORIGIN:** N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR **ORIGIN NORTHING:** 0.0000 F
ZONE: DESCHUTES COUNTY **ORIGIN EASTING:** 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.000160000000

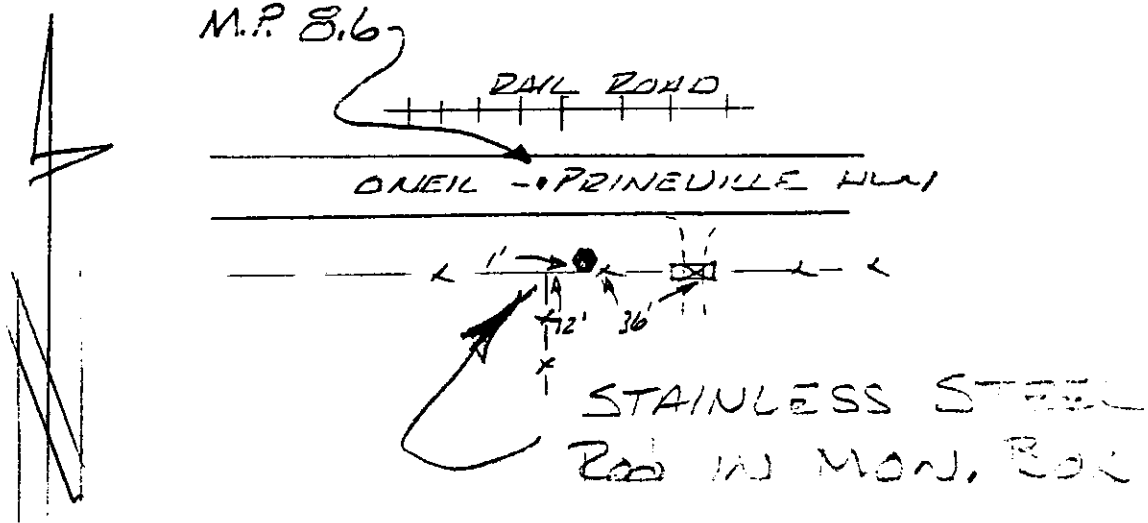
GEODETIC AND MAPPING COORDINATES

MARK: <u>N-463</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°16'34.202321"	ONE SIGMA ERROR
Longitude:	120°54'19.927459"	
Northing:	465488.5706	0.013
Easting:	3398968.6937	0.012
Convergence:	+ 0°15'49.4976"	
Scale Factor:	1.000171184598	
Ellipsoid Height:	3201.7976	0.018
Orthometric Height:	3265.315	FIXED
Geoid Height:	-63.5174	

CONTROL MARK DATA

NAME OF MARK: N-752 COUNTY: CROOK
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 14 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

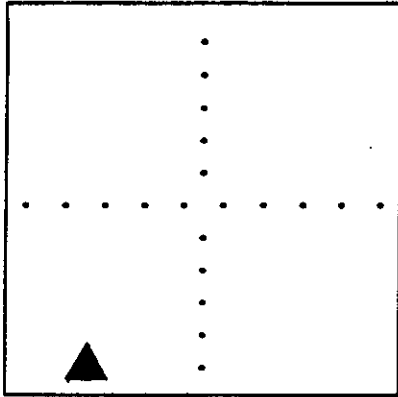
<u>MARK: N-752</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°20'04.041374"	ONE SIGMA ERROR
Longitude:	121°01'08.353744"	
Northing:	486625.4697	0.013
Easting:	3369180.1519	0.012
Convergence:	+ 0°11'05.0562"	
Scale Factor:	1.000165464873	
Ellipsoid Height:	2728.2602	0.018
Orthometric Height:	2792.7034	FIXED
Geoid Height:	-64.4432	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: P-35 RESET 1987
GIS # 0062
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 18 S.- R. 09 E., SEC.21

LATITUDE: 43° 59' 36.76943" N
LONGITUDE: 121° 39' 32.43139" W

----- EC CARTESIAN -----
X: -2412985.412 METERS
Y: -3913215.672 METERS
Z: +4408917.408 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1931.526 METERS
NGVD 29 : 1950.436 METERS
NAVD 88 : 1951.789 METERS
----- SPC -- OREGON SOUTH -----
NORTH: 259129.991±.007 METERS
EAST: 1407033.368±.006 METERS

SCALE FACTOR: 0.999998366
CONVERGENCE: - 0° 47' 34.56 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - P 35 USGS RESET 1987
AGENCY INSCRIPTION - USG & GS
THE STATION IS LOCATED ABOUT 18 MILE SOUTHWEST OF BEND.

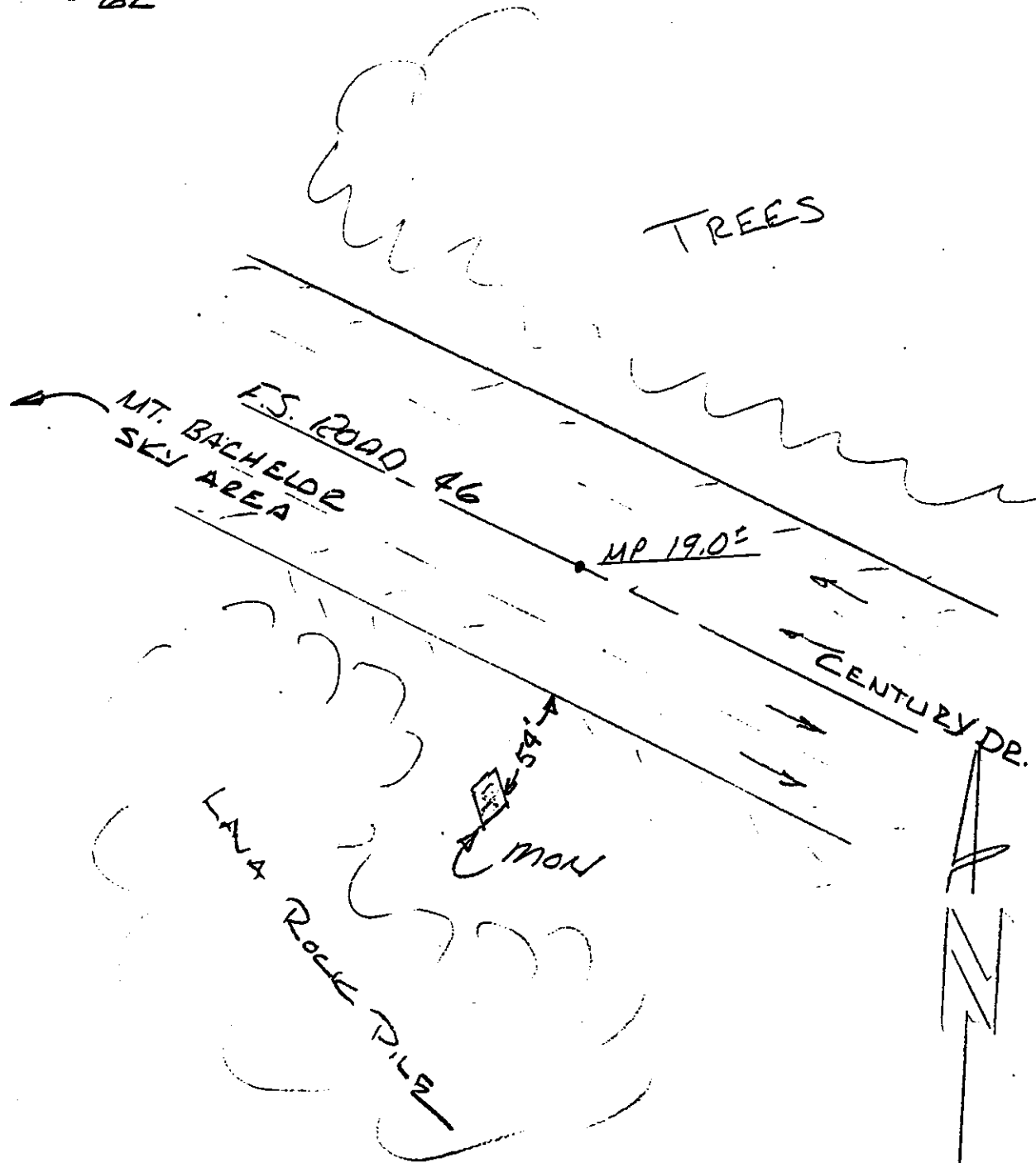
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 0.3 MI., TURN RIGHT ON FRANKLIN AVE & PROCEED 0.6 MI., LEFT ON BOND ST. & PROCEED SOUTH 0.4 MI., TURN RIGHT ON COLORADO AVE AND PROCEED 1.10 MI. TO THE INTERSECTION WITH CENTURY DRIVE HWY., TURN LEFT AND PROCEED SOUTHERLY 19.0 MI. TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. DISK CROUTRED IN A ROCK OUTCROP 1.0 FEET ABOVE GROUND LEVEL.
68 FEET SOUTHERLY FROM THE SOUTH EDGE OF ROAD
2 FEET SOUTH FROM A WITNES POST
560 FEET EASTERLY FROM ROAD TO SUNRISE SKI LODGE

Location and reference sketch:

Name: P 35 RESET 1987

GIS #: 62



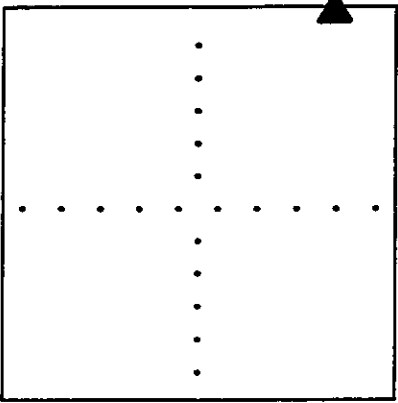
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: P-372 1943 GIS # 0059 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 20 S.- R. 16 E., SEC.06</p>	<p>LATITUDE: 43° 52' 16.02375" N LONGITUDE: 120° 50' 50.06584" W</p> <p>----- EC CARTESIAN ----- X: -2361909.360 METERS Y: -3954722.572 METERS Z: +4398679.191 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1293.456 METERS NGVD 29 : 1317.291 METERS NAVD 88 : 1318.484 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 244941.530±.007 METERS EAST: 1472089.866±.005 METERS</p> <p>SCALE FACTOR: 0.999969801 CONVERGENCE: - 0° 14' 15.23 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - P 372 1943
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 3.2 MILES EASTERLY OF MILLICAN.

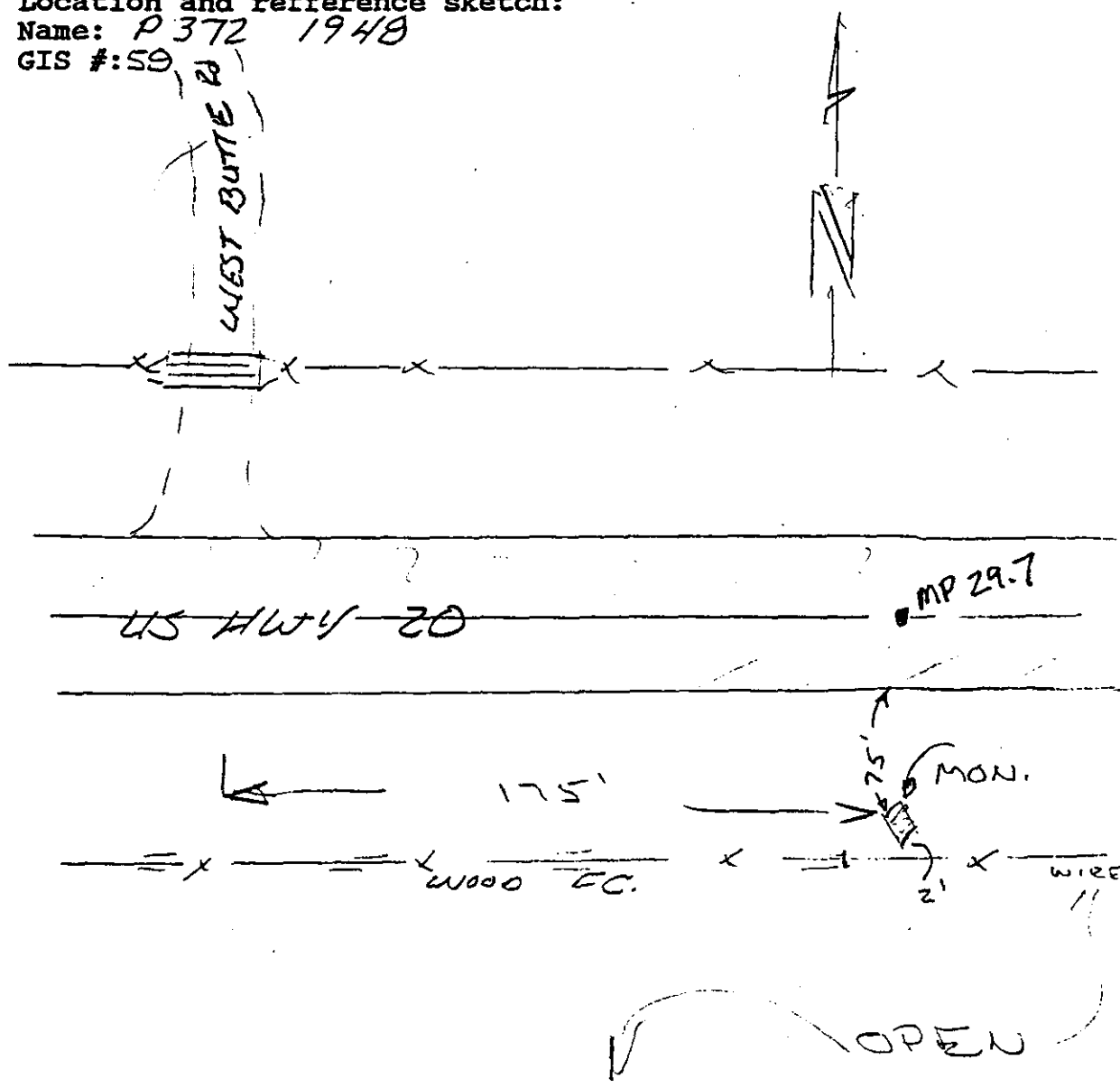
TO REACH THE STATION FROM MILLICAN, GO EASTERLY ON HWY 20 FOR 3.8 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. BRASS CAP IN A CONCRETE POST 0.2 FEET ABOVE GROUND LEVEL.
1.7 FEET NORTH OF A WIRE FENCE
150 FEET EAST OF THE CENTER LINE WEST BUTTE RD.
1 FEET NORTH OF A WITNES POST
82 FEET SOUTH OF THE SOUTH EDGE OF HWY 20.

Location and reference sketch:

Name: P 372 1948

GIS #: 59



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

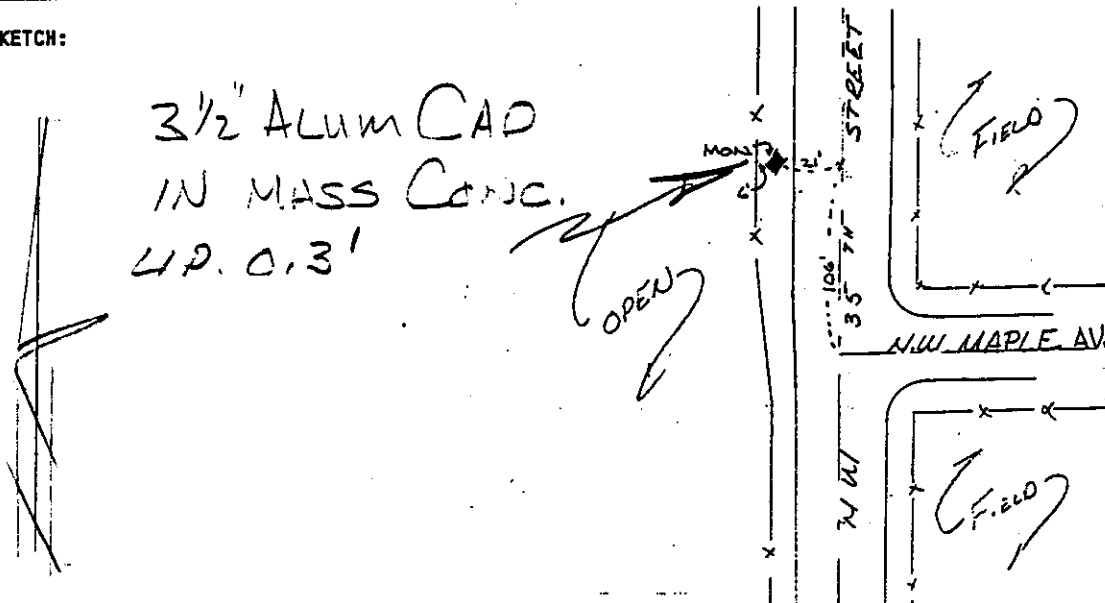
Bend, Oregon. 97702

(503) 333-4005

CONTROL MARK DATA

NAME OF MARK: GIS 0022 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 15 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 5

MARK SKETCH:



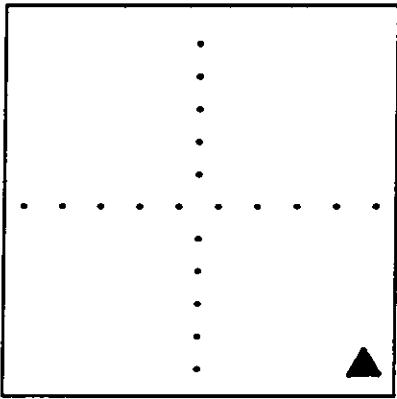
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>GIS 0022</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°17'28.648220"	ONE SIGMA ERROR
Longitude:	121°12'33.565460"	
Northing:	470783.953	FIXED
Easting:	3319382.7229	FIXED
Convergence:	+ 0°03'06.0530"	
Scale Factor:	1.000160428992	
Ellipsoid Height:	2883.8517	FIXED
Orthometric Height:	2949.1783	0.044
Geoid Height:	-65.3266	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0022 GIS # 0022 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 15 S.- R. 13 E., SEC. 6</p>	<p>LATITUDE: 44° 17' 28.64822" N LONGITUDE: 121° 12' 33.56546" W</p> <p>----- EC CARTESIAN ----- X: -2369865.511 METERS Y: -3911676.356 METERS Z: +4431930.922 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 878.998 METERS NGVD 29 : 898.9810 METERS NAVD 88 : 900.06312 METERS</p> <p>---- SPC -- OREGON SOUTH ---- NORTH: 291811.636±.003 METERS EAST: 1443382.671±.003 METERS</p> <p>SCALE FACTOR: 1.000087117 CONVERGENCE: - 0° 29' 07.02 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0022
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 2.2 MILE NORTHWEST OF REDMOND.

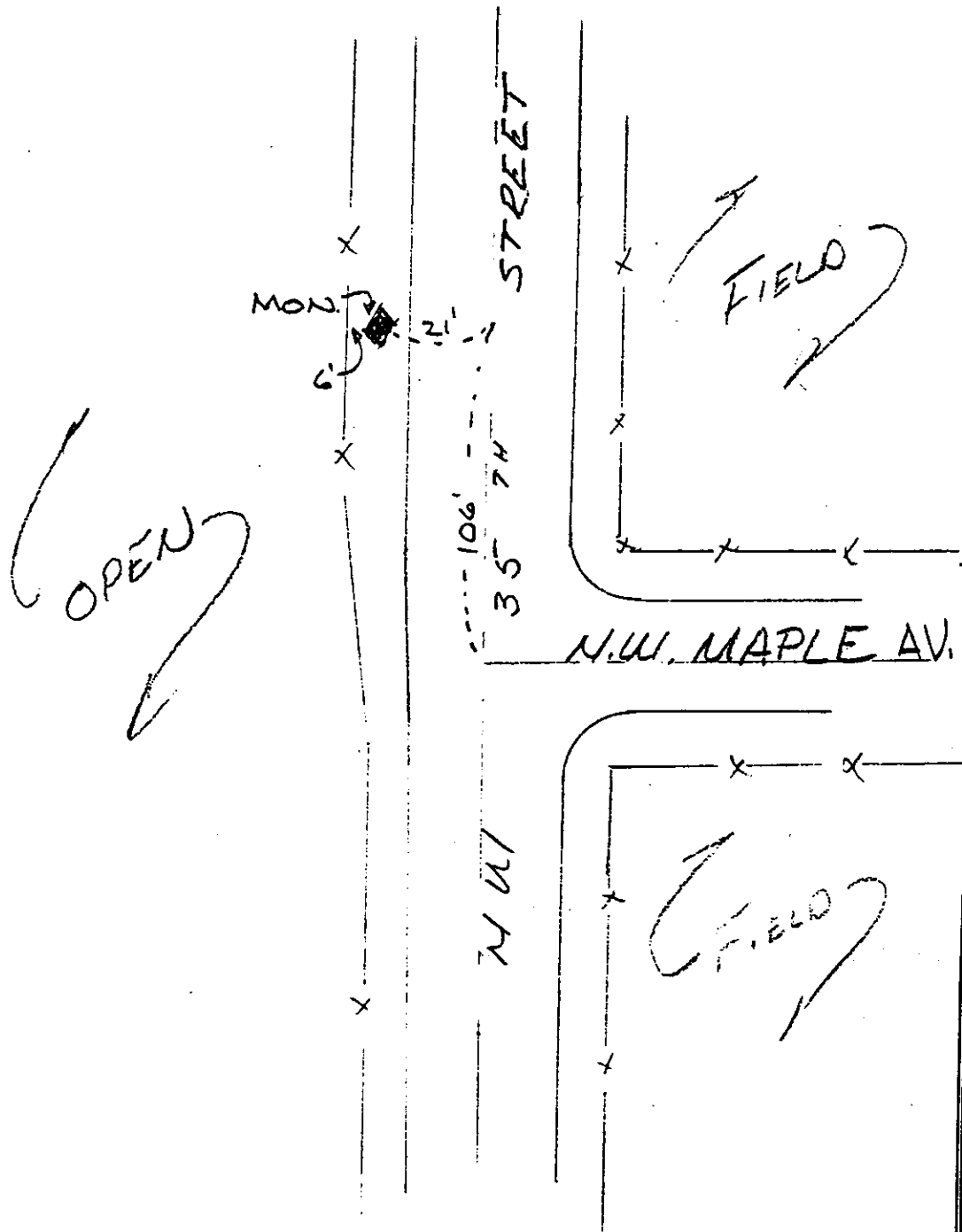
TO REACH THE STATION FROM REDMOND, START AT THE INTERSECTION OF US HWY 97 (5th ST.) & OR.HWY 126, PROCEED WEST ON HWY 126 FOR 0.85 , , , , MI., TURN RIGHT ON RIM ROCK WAY & PROCEED NORTH FOR 0.55 MILES, TURN LEFT ON WEST ANTLER AVE. & PROCEED WEST FOR 1.00 MILES, TURN RIGHT ON NW 35th ST. & PROCEED NORTH 1.00 MI. TO THE INTERSECTION WITH NW MAPLE AV., CONTINUE NORTH ON 35th ST. FOR 112 FEET TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 9.6 FEET WEST OF THE WEST EDGE OF 35th ST. 7.9 FEET EAST OF AN OLD BOARD FENCE

Location and reference sketch:

Name: GIS 0022

GIS #: 22



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

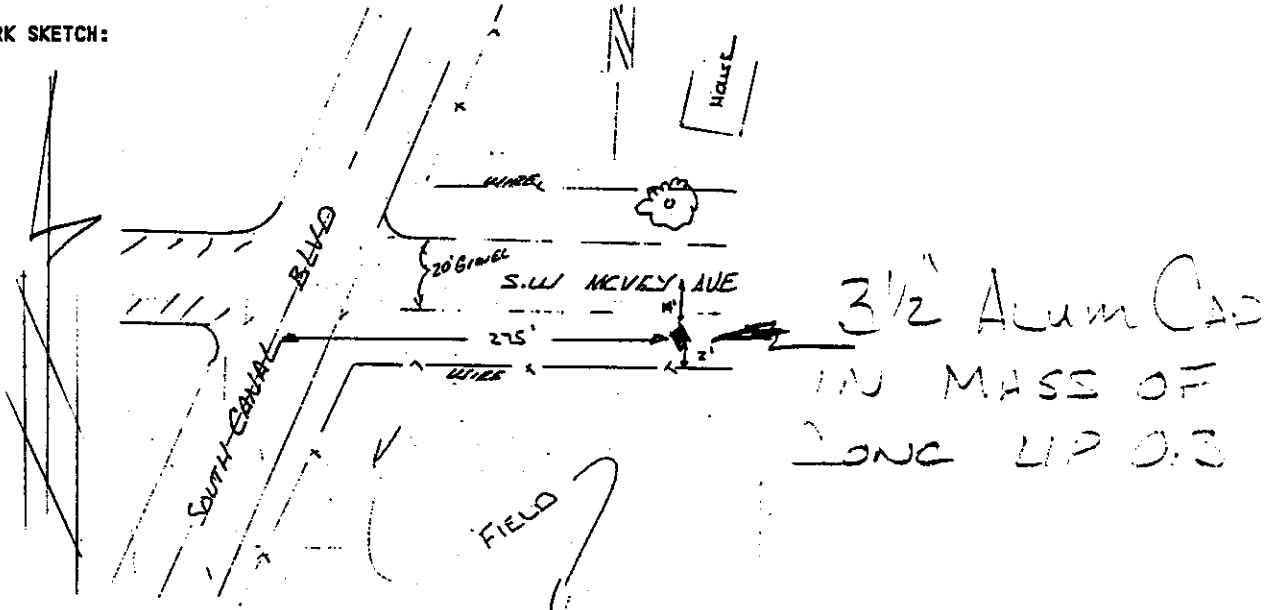
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: GIS 0023 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 15 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 5

MARK SKETCH:



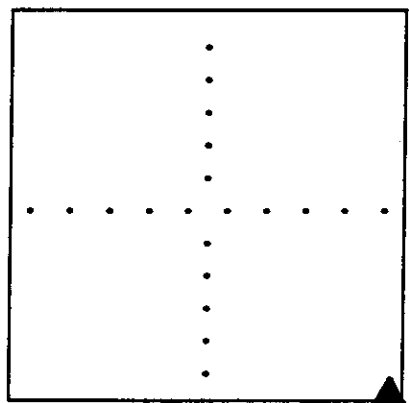
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>GIS 0023</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°13'06.655070"	ONE SIGMA ERROR
Longitude:	121°13'48.386980"	FIXED
Northing:	444244.4739	FIXED
Easting:	3313956.7691	FIXED
Convergence:	+ 0°02'13.6303"	
Scale Factor:	1.000160222432	
Ellipsoid Height:	3060.3018	FIXED
Orthometric Height:	3125.5971	FIXED
Geoid Height:	-65.2953	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0023 GIS # 0023 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 15 S.- R. 12 E., SEC.36</p>	<p>LATITUDE: 44° 13' 06.65507" N LONGITUDE: 121° 13' 48.38698" W</p> <p align="center">----- EC CARTESIAN -----</p> <p>X: -2374230.595 METERS Y: -3915675.594 METERS Z: +4426175.628 METERS</p> <p align="center">----- HEIGHT -----</p> <p>ELLIPSOIDAL: 932.780 METERS NGVD 29 : 952.682 METERS NAVD 88 : 953.780 METERS</p> <p align="center">---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 283738.942±.003 METERS EAST: 1441653.276±.003 METERS</p> <p>SCALE FACTOR: 1.000062896 CONVERGENCE: - 0° 29' 58.20 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0023
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 4.4 MILE SOUTHWEST OF REDMOND.

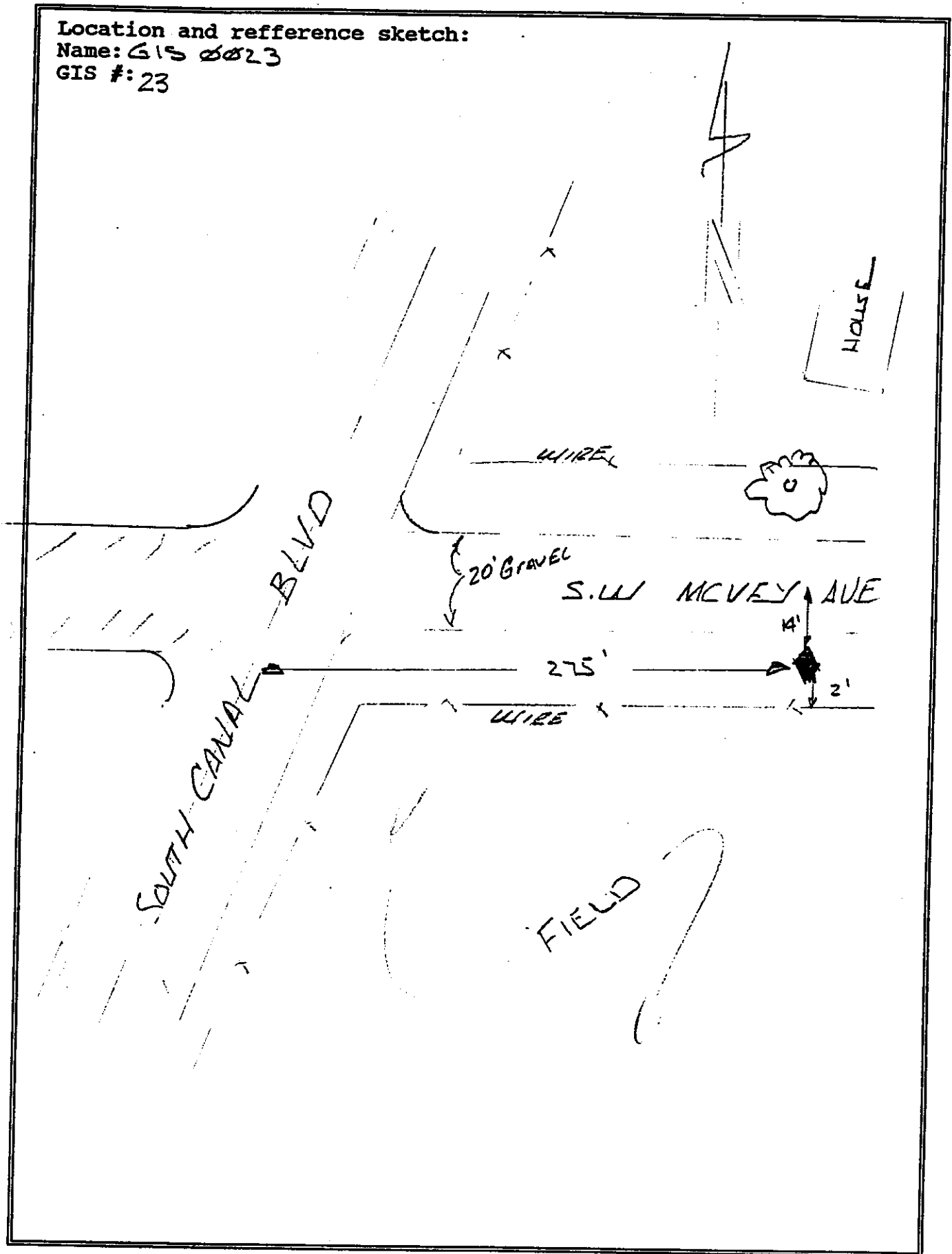
TO REACH THE STATION FROM REDMOND, START AT THE INTERSECTION OF US HWY 97 (6th ST.) & OR.HWY 126, PROCEED SOUTH ON HWY 97 FOR 0.16 MI., TURN RIGHT SOUTH CANAL ACCESS RD. & PROCEED WESTERLY 0.08 MI., TURN LEFT ON SOUTH CANAL BLVD. & PROCEED SOUTH FOR 4.45 MI., TURN LEFT ON S.W. McVEY. & PROCEED EAST 300 FEET TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL. 6.0 FEET SOUTH OF THE SOUTH EDGE OF S.W.McVEY. 2.0 FEET NORTH OF A WIRE FENCE.

Location and reference sketch:

Name: GIS 0023

GIS #: 23



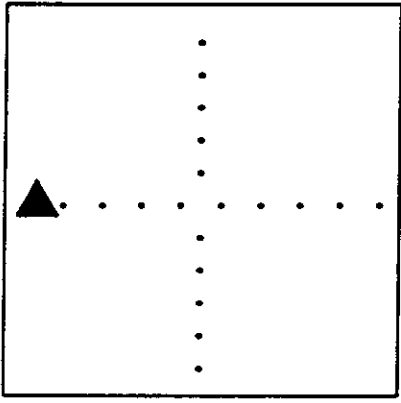
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0024 GIS # 0024 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 17 S.- R. 14 E., SEC. 2</p>	<p>LATITUDE: 44° 07' 28.46935" N LONGITUDE: 121° 01' 37.71932" W</p> <p>----- EC CARTESIAN ----- X: -2364118.671 METERS Y: -3930335.256 METERS Z: +4418733.026 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 997.990 METERS NGVD 29 : 1017.420 METERS NAVD 88 : 1018.553 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 273178.643±.005 METERS EAST: 1457807.173±.004 METERS</p> <p>SCALE FACTOR: 1.000034051 CONVERGENCE: - 0° 21' 38.32 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0024 1988 LS 1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 14.4 MILES EASTERLY OF BEND.

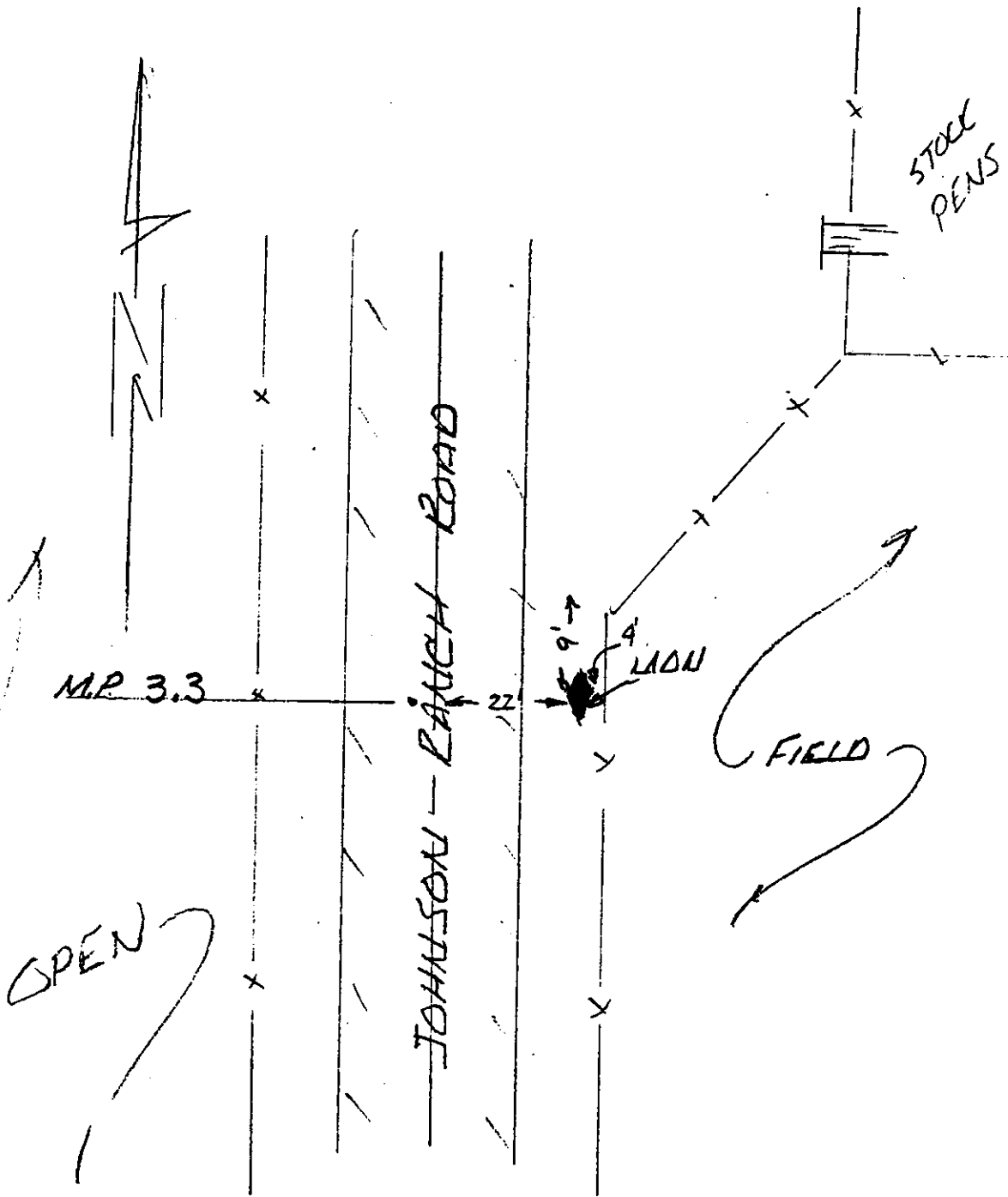
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.25 MI., TURN LEFT ON POWELL BUTTE HWY & PROCEED NORTEAST FOR 0.6 MI., TURN RIGHT ON ALFALFA MARKET RD. & PROCEED EASTERLY FOR 9.40 MILES, TURN RIGHT ON JOHNSON RANCH ROAD AND PROCEED NORTH FOR 3.23 MILES TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE 0.3 FEET ABOVE GROUND LEVEL. 3.7 FEET WEST OF A WIRE FENCE. 12 FEET EAST OF THE EAST EDGE OF JOHNSON RANCH ROAD.

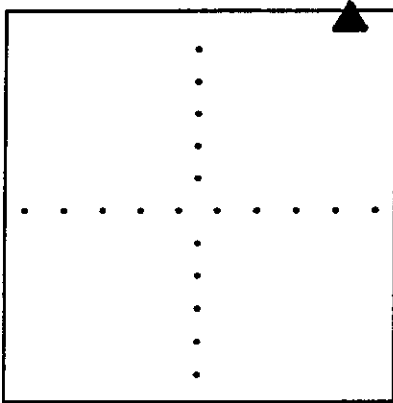
Location and reference sketch:

Name: GIS 0024

GIS #: 24



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0025 GIS # 0025 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 18 S.- R. 12 E., SEC.36</p>	<p>LATITUDE: 43° 58' 43.24277" N LONGITUDE: 121° 13' 28.43499" W</p> <p>----- EC CARTESIAN ----- X: -2383560.870 METERS Y: -3931921.280 METERS Z: +4407209.805 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1184.736 METERS NGVD 29 : 1204.111 METERS NAVD 88 : 1205.281 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 257086.104±.003 METERS EAST: 1441865.606±.003 METERS</p> <p>SCALE FACTOR: 0.999994651 CONVERGENCE: - 0° 29' 44.55 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0024 1988 LS 1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 6.8 MILES SOUTHEAST OF BEND.

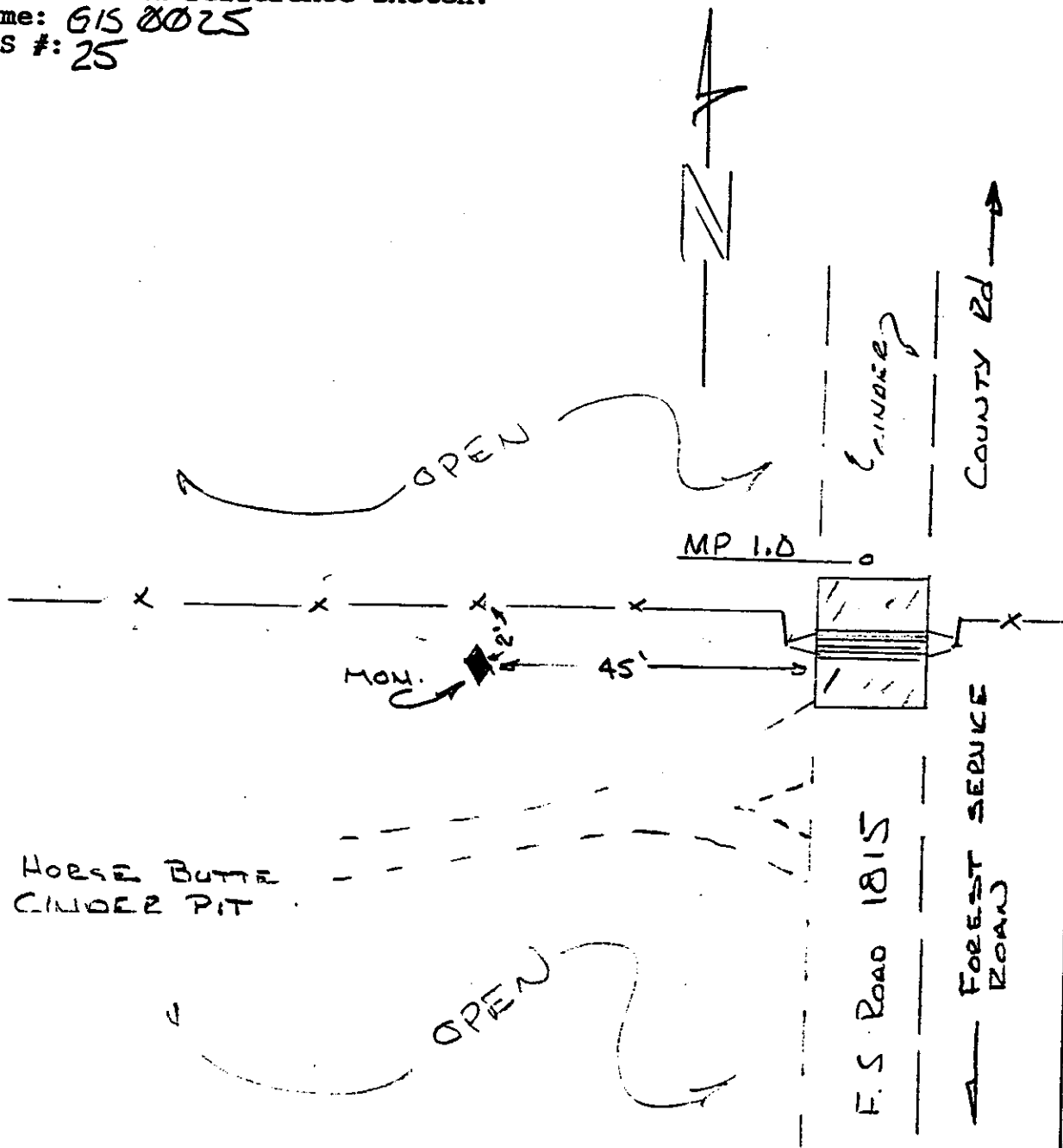
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI., TURN RIGHT ON SE 27th STREET & PROCEED SOUTH FOR 3.14 MI., TURN LEFT ON RICKARD ROAD & PROCEED EAST FOR 1.72 MI., TURN RIGHT ON BILLADEAU ROAD & PROCEED SOUTH FOR 1.0 MI, CONTINUE SOUTH ON (NOW HORSE BUTTE ROAD) FOR 1.0 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM IN A MASS OF CONCRETE 0.3 FEET ABOVE GROUND LEVEL. 2.0 FEET SOUTH OF A WIRE FENCE. 47 FEET WEST OF A END POST OF A CATTLE GUARD ACROSS HORSE BUTTE ROAD.

Location and reference sketch:

Name: GIS 0025

GIS #: 25



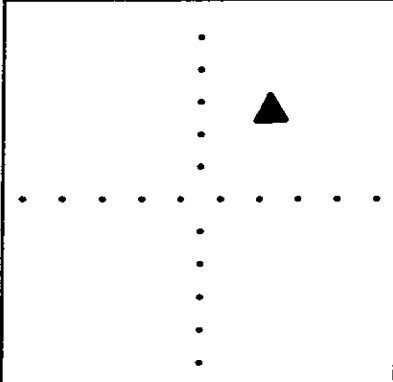
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0035 GIS # 0035 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 18 S.- R. 12 E., SEC.30</p>	<p>LATITUDE: 43° 59' 27.22059" N LONGITUDE: 121° 19' 54.79581" W</p> <p>----- EC CARTESIAN ----- X: -2390428.171 METERS Y: -3926638.995 METERS Z: +4408180.587 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1176.031 METERS NGVD 29 : 1195.480 METERS NAVD 88 : 1196.648 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 258523.399±.003 METERS EAST: 1433268.500±.003 METERS</p> <p>SCALE FACTOR: 0.999997699 CONVERGENCE: - 0° 34' 08.88 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0035
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 5 MILE SOUTH OF BEND.

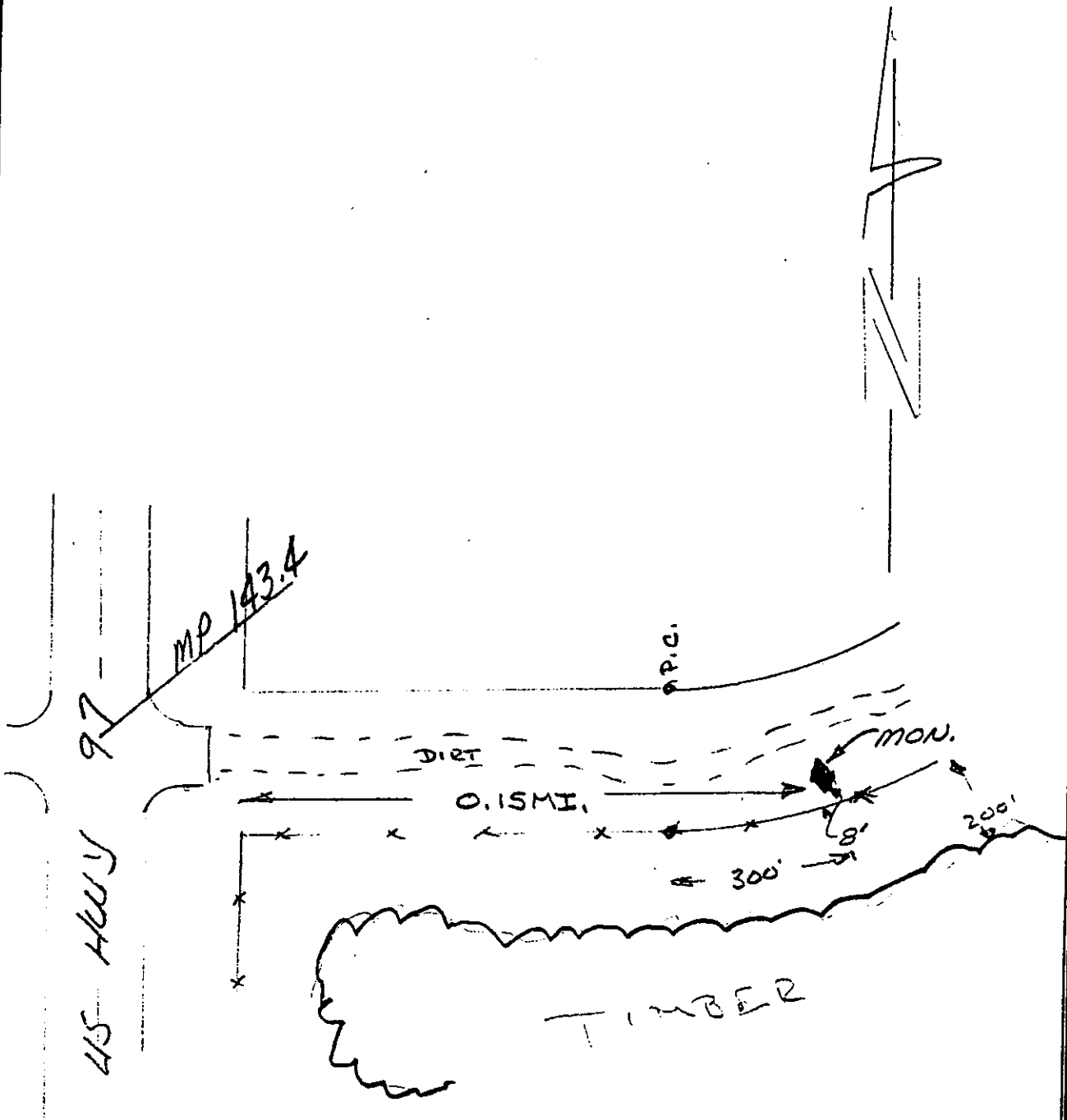
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 FOR 5.1 MI TO THE INTERSECTION WITH BAKER ROAD, TURN LEFT ON DIRT ROAD (UNDER CONSTRUCTION FOR 10 YEARS) AND PROCEED EAST FOR 1000 FEET TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 2 IN BRASS DISK GROUTRED IN A ROCK OUTCROP AT GROUND LEVEL.
8.6 FEET NORTHERLY FROM A WIRE FENCE LINE
2 FEET NORTH FROM A WITNES POST

Location and reference sketch:

Name: Chis 35

GIS #: 35



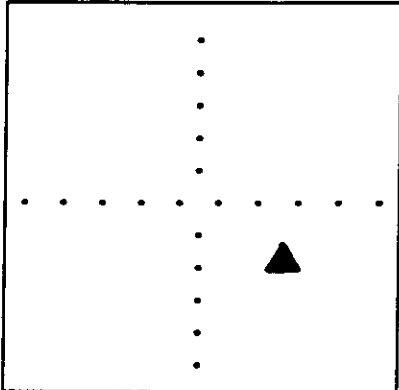
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0036 GIS # 0036 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 18 S.- R. 11 E., SEC.12</p>	<p>LATITUDE: 44° 01' 12.53426" N LONGITUDE: 121° 22' 09.96186" W</p> <p>----- EC CARTESIAN ----- X: -2391820.319 METERS Y: -3923135.440 METERS Z: +4410510.159 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1163.330 METERS NGVD 29 : 1182.830 METERS NAVD 88 : 1184.017 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 261804.279±.003 METERS EAST: 1430290.515±.003 METERS</p> <p>SCALE FACTOR: 1.000005183 CONVERGENCE: - 0° 35' 41.36 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0036
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 3 MILE SOUTHWEST OF BEND.

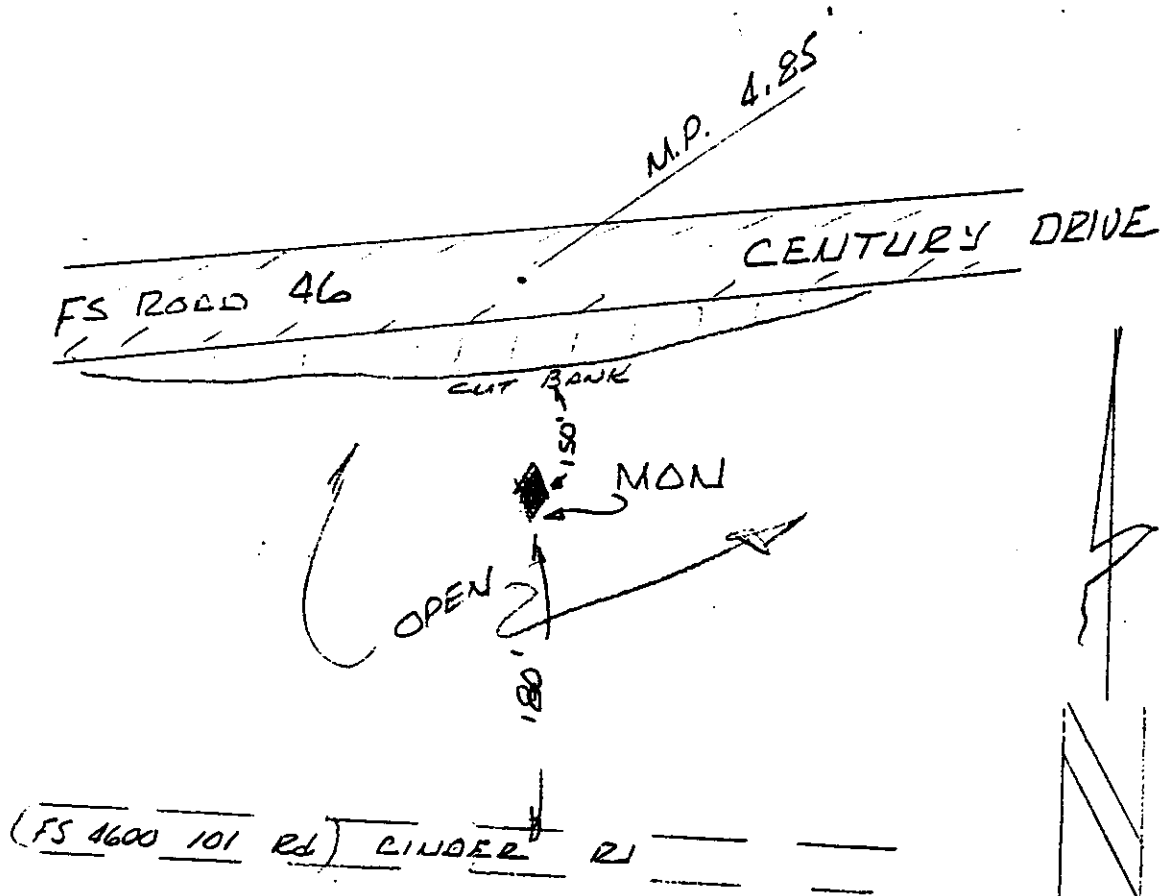
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 0.3 MI., TURN RIGHT ON FRANKLIN AVE & PROCEED 0.6 MI., LEFT ON BOND ST. & PROCEED SOUTH 0.4 MI., TURN RIGHT ON COLORADO AVE AND PROCEED 1.10 MI. TO THE INTERSECTION WITH CENTURY DRIVE HWY., TURN LEFT AND PROCEED SOUTHERLY 2.5 MI. TO THE STATION ON THE LEFT.

THE STATION MARK IS A 2 IN. BRASS DISK CROUTED IN A LARGE BOULDER 0.4 FEET ABOVE GROUND LEVEL.
155 FEET SOUTHEASTERLY FROM ROAD CUT LINE
2 FEET NORTHER FROM A WITNES POST

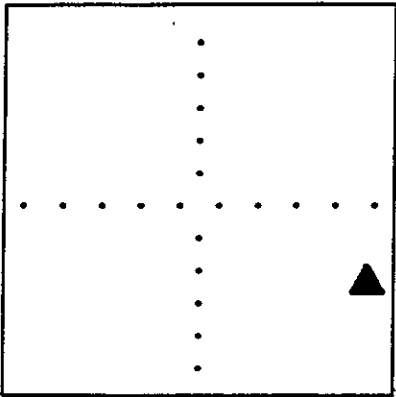
Location and reference sketch:

Name: . GIS 36

GIS #: 36



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0037 GIS # 0037 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 18 S.- R. 10 E., SEC.27</p>	<p>LATITUDE: 43° 58' 57.50831" N LONGITUDE: 121° 30' 16.88130" W</p> <p>----- EC CARTESIAN -----</p> <p>X: -2402737.705 METERS Y: -3920191.367 METERS Z: +4407788.395 METERS</p> <p>----- HEIGHT -----</p> <p>ELLIPSOIDAL: 1561.593 METERS NGVD 29 : 1580.756 METERS NAVD 88 : 1581.973 METERS</p> <p>---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 257758.406±.005 METERS EAST: 1419396.495±.005 METERS</p> <p>SCALE FACTOR: 0.999995635 CONVERGENCE: - 0° 41' 14.48 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0037
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 11 MILE SOUTHWEST OF BEND.

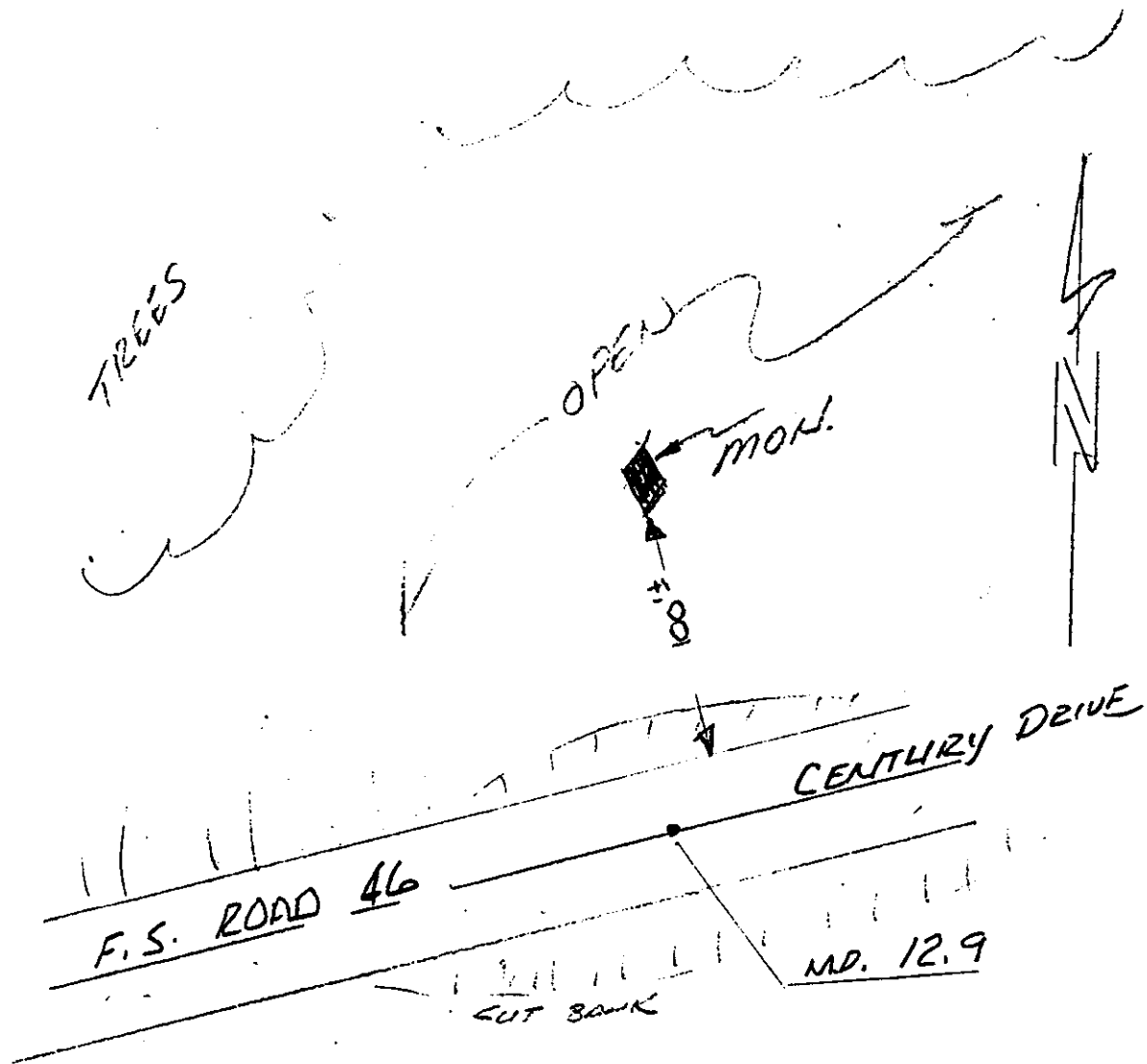
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED SOUTH ON HWY 97 0.3 MI., TURN RIGHT ON FRANKLIN AVE & PROCEED 0.6 MI., LEFT ON BOND ST. & PROCEED SOUTH 0.4 MI., TURN RIGHT ON COLORADO AVE AND PROCEED 1.10 MI. TO THE INTERSECTION WITH CENTURY DRIVE HWY., TURN LEFT AND PROCEED SOUTHERLY 10.7 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 2 IN. BRASS DISK CROUTRED IN A LARGE BOULDER 1.5 FEET ABOVE GROUND LEVEL.
100 FEET NORTHERLY FROM THE NORTH EDGE OF ROAD
2 FEET SOUTH FROM A WITNES POST

Location and reference sketch:

Name: GIS 37

GIS #: 37



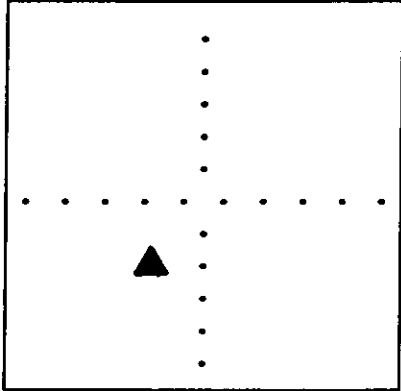
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0038 GIS # 0038 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 21 S.- R. 11 E., SEC.28</p>	<p>LATITUDE: 43° 43' 37.89194" N LONGITUDE: 121° 25' 24.37027" W</p> <p>----- EC CARTESIAN ----- X: -2407326.925 METERS Y: -3940209.531 METERS Z: +4387126.193 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1286.037 METERS NGVD 29 : 1305.366 METERS NAVD 88 : 1306.583 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 229303.235±.006 METERS EAST: 1425601.989±.006 METERS</p> <p>SCALE FACTOR: 0.999942108 CONVERGENCE: - 0° 37' 54.36 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0038 1990
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 6 MILES NORTHEREAST OF LIPINE

TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 6.3 TO INTERSECTION WITH PAULINA LAKE RD. (FOREST RD. 21) TURN RIGHT AND PROCEED EASTERLY FOR 2.8 MI. TO THE BRIDGE OVER PAULINA CREEK AND TO THE STATION ON THE LEFT.

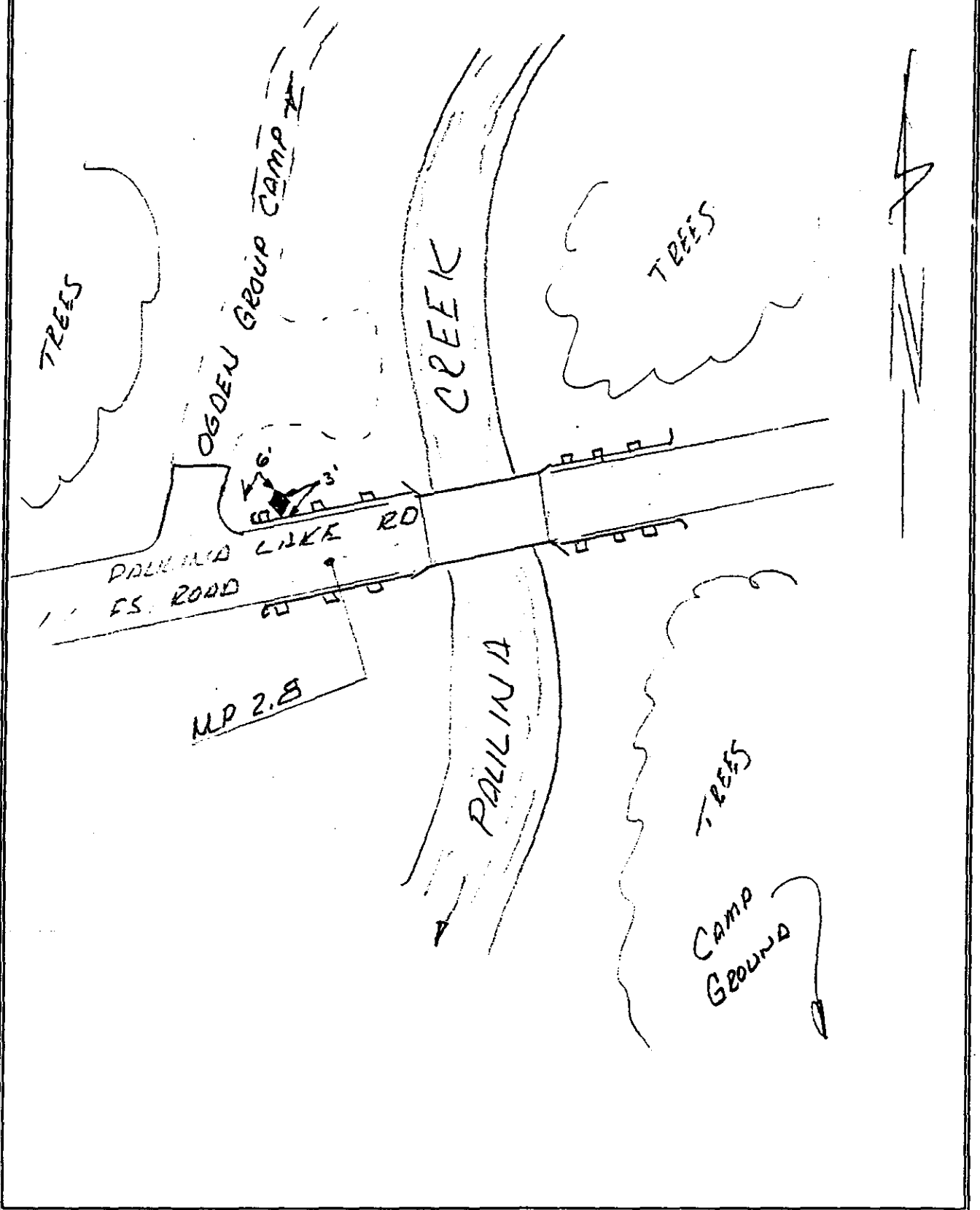
THE STATION MARK IS A STANDARD 3 1/2 IN ALUMINUM CAP IN A MASS OF CONCRETE AT GROUND LEVEL.
3 FEET NORTH OF NORTH GUARDRAIL
80 FEET WEST OF PAULINA CREEK
19 FEET EAST OF CAMP GROUND ROAD
1 FOOT SOUTH OF WITNES POST

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

Location and reference sketch:

Name: 61538

GIS #: 38



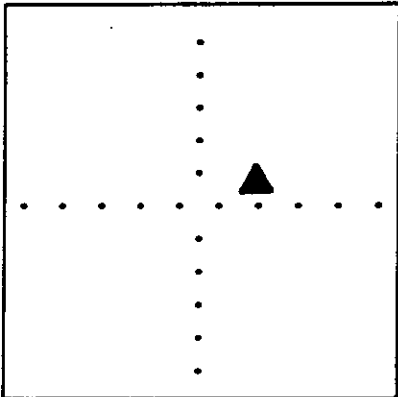
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0039 GIS # 0039 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 21 S.- R. 09 E., SEC.23</p>	<p>LATITUDE: 43° 44' 27.99122" N LONGITUDE: 121° 36' 24.15555" W</p> <p>----- EC CARTESIAN ----- X: -2419354.474 METERS Y: -3931572.833 METERS Z: +4388237.332 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1276.905 METERS NGVD 29 : 1296.523 METERS NAVD 88 : 1297.746 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 231028.199±.005 METERS EAST: 1410857.491±.005 METERS</p> <p>SCALE FACTOR: 0.999944508 CONVERGENCE: - 0° 45' 25.75 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 39
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 7 MILES NORTHWEST OF LIPINE

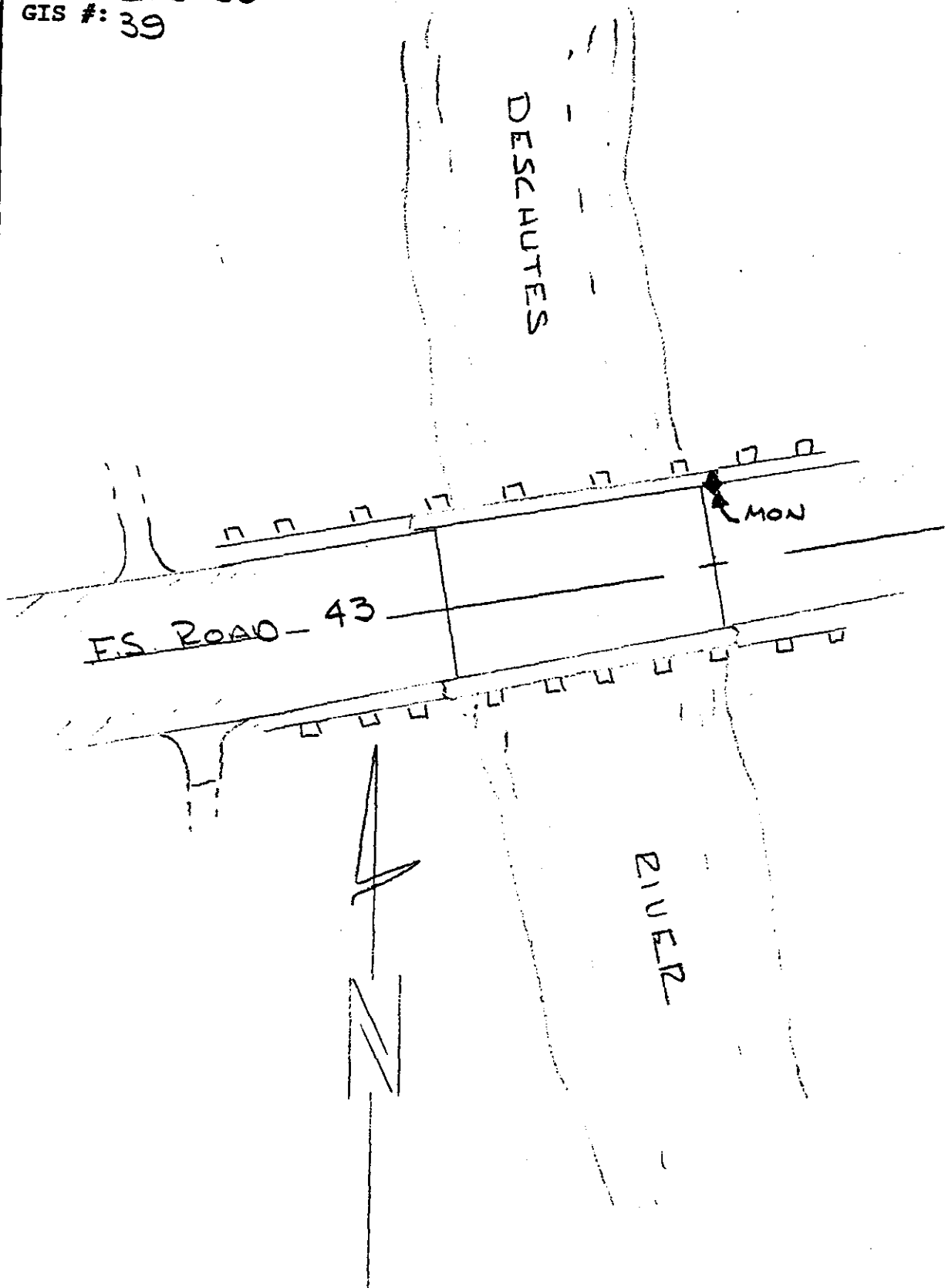
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 2.8 TO INTERSECTION WITH BURGESS COUNTY ROAD, TURN LEFT AND PROCEED WESTERLY FOR 7.6 MI. TO THE STATION IN THE SIDEWALK IN THE NE COR. OF A BRIDGE OVER THE DESCHUTES RIVER.

THE STATION MARK IS A 2 IN. BRASS DISK GROUTED IN THE CONCRETE SIDEWALK IN THE NE BRIDGE CORNER, 8 IN ABOVE ROAD LEVEL.

Location and reference sketch:

Name: GIS 39

GIS #: 39

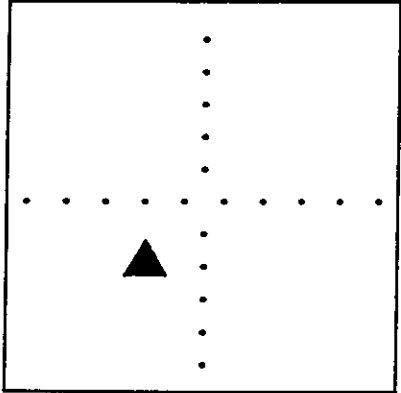


DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0040 GIS # 0040 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 18 S.- R. 13 E., SEC.24</p>	<p>LATITUDE: 43° 59' 56.97572" N LONGITUDE: 121° 06' 58.29775" W</p> <p>----- EC CARTESIAN ----- X: -2375262.167 METERS Y: -3935002.092 METERS Z: +4408771.718 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1075.734 METERS NGVD 29 : 1095.145 METERS NAVD 88 : 1096.307 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 259292.162±.004 METERS EAST: 1450577.199±.003 METERS</p> <p>SCALE FACTOR: 0.999999787 CONVERGENCE: - 0° 25' 17.64 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0040 1990
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 10.0 MILES EASTERLY OF BEND.

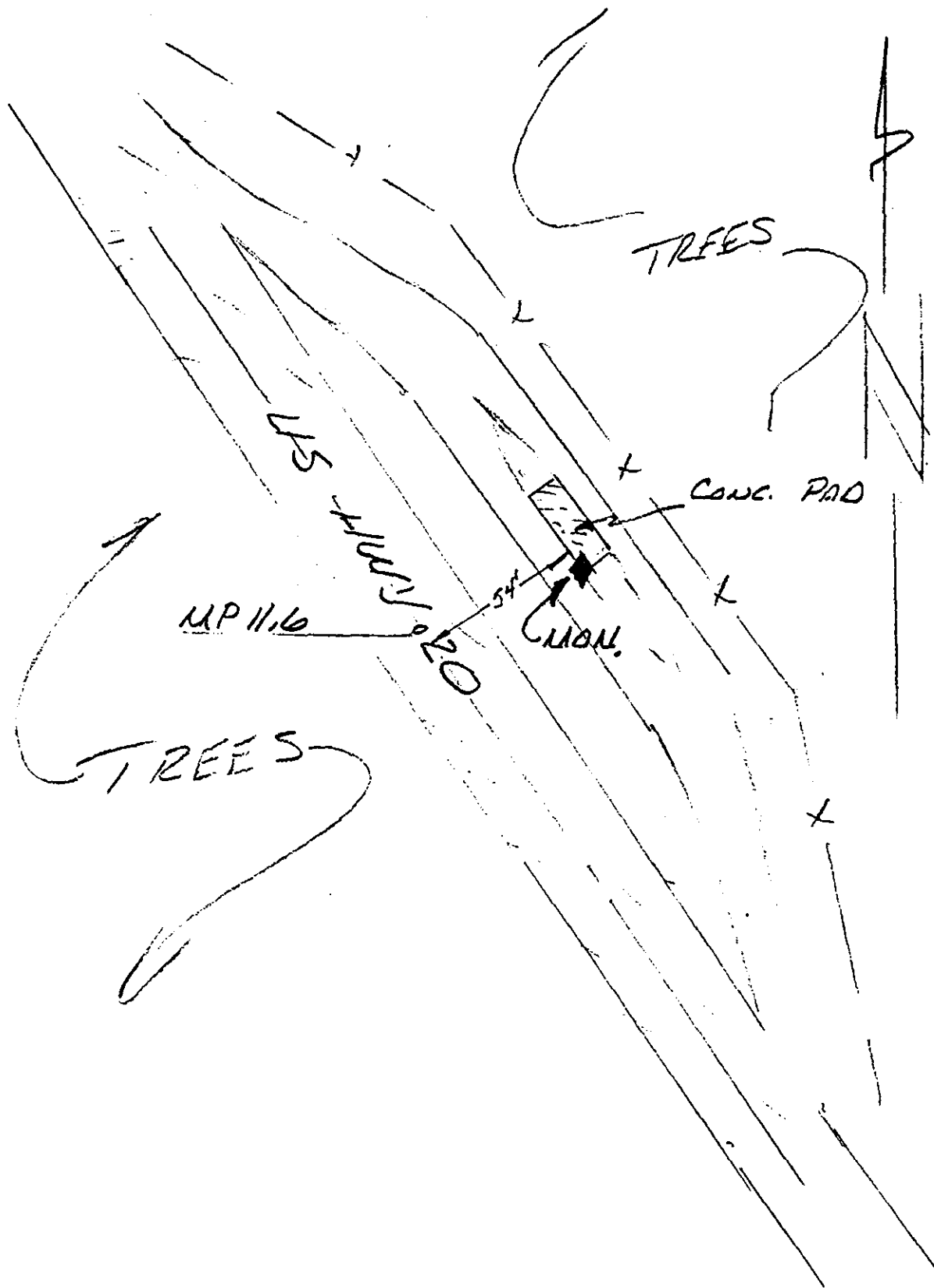
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 11.2 MI. TO THE STATION ON THE LEFT.

THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN CONCRETE AT THE SW CORNER OF A STATE HWY CONCRETE JUMP SCALE PAD AT GROUND LEVEL.
54 FEET NORTHEAST FROM THE CENTERLINE OF HWY 20.
30 FEET SOUTHWEST OF A WITNES POST

Location and reference sketch:

Name: GIS 40

GIS #: 40



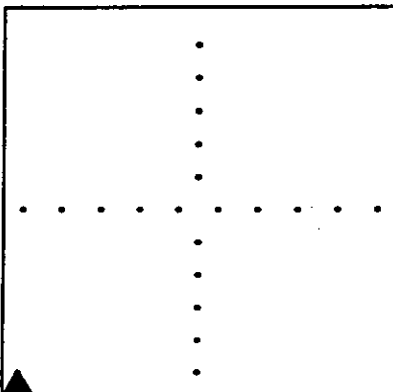
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0041 GIS # 0041 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 20 S.- R. 10 E., SEC.01</p>	<p>LATITUDE: 43° 51' 45.73754" N LONGITUDE: 121° 29' 13.45441" W</p> <p>----- EC CARTESIAN ----- X: -2406256.590 METERS Y: -3928643.565 METERS Z: +4397994.224 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1282.693 METERS NGVD 29 : 1302.064 METERS NAVD 88 : 1303.289 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 244416.557±.005 METERS EAST: 1420652.861±.005 METERS</p> <p>SCALE FACTOR: 0.999968007 CONVERGENCE: - 0° 40' 31.09 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0041 1990
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 13.5 MILES NORTHERLY OF LAPINE

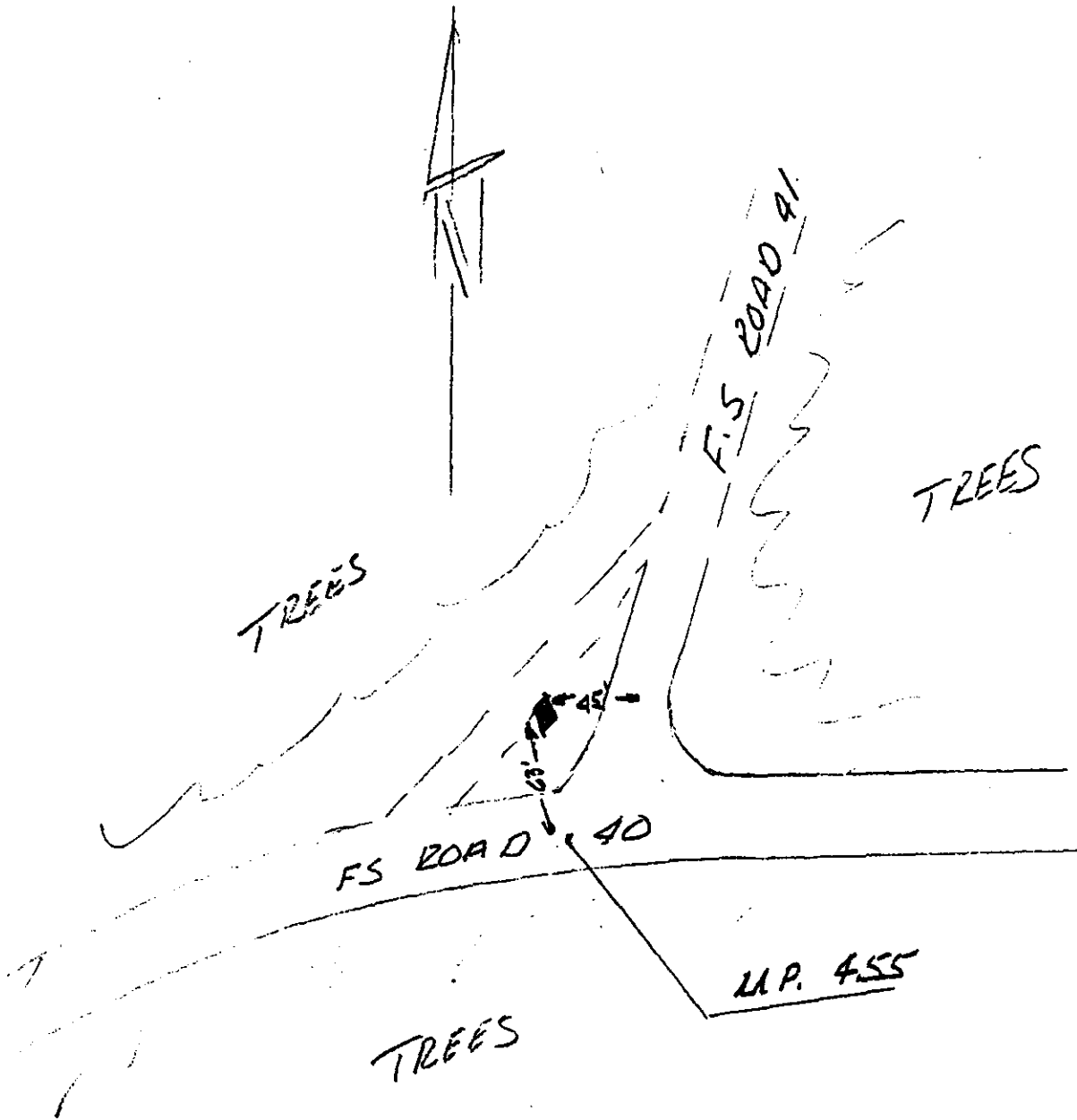
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 12.5 MI TO INTERSECTION WITH VANDERVERT ROAD, TURN LEFT ON VANDERVERT ROAD AND PROCEED WEST FOR 1.0 MI. TO THE INTERSECTION WITH SOUTH CENTURY DRIVE, TRUN RIGHT ON SOUTH CENTURY DRIVE AND PROCEED NORTH FOR 2.0 MI. TO THE INTERSECTION WITH SPRING RIVER ROAD. TURN LEFT AND PROCEED WEST ON SPRING RIVER ROAD FOR 2.33 MI. TO THE STATION AT THE INTERSECTION WITH FOREST ROAD 41.

THE STATION MARK IS A 3 1/2 IN. DISK IN A MASS OF CONCRETE AT GROUND LEVEL.
50 FEET NORTH OF THE NORTH EDGE SPRING RIVER ROAD
33 FEET WEST OF THE WEST EDGE OF ROAD 41
1 FOOT SOUTH FROM A WITNES POST

Location and reference sketch:

Name: GIS 0041

GIS #: 41



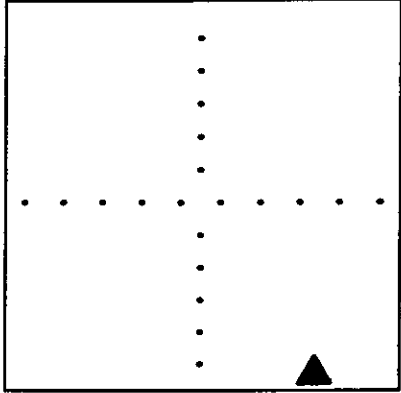
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 382-4205

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0042 GIS # 0042 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 20 S.- R. 09 E., SEC.18</p>	<p>LATITUDE: 43° 50' 14.63685" N LONGITUDE: 121° 41' 16.16163" W</p> <p>----- EC CARTESIAN ----- X: -2421087.211 METERS Y: -3921938.456 METERS Z: +4396070.144 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1432.856 METERS NGVD 29 : 1452.372 METERS NAVD 88 : 1453.659 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 241814.777±.007 METERS EAST: 1404476.227±.005 METERS</p> <p>SCALE FACTOR: 0.999962743 CONVERGENCE: - 0° 48' 45.52 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0042 1990
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 15 MILES NORTHWEST OF LAPINE

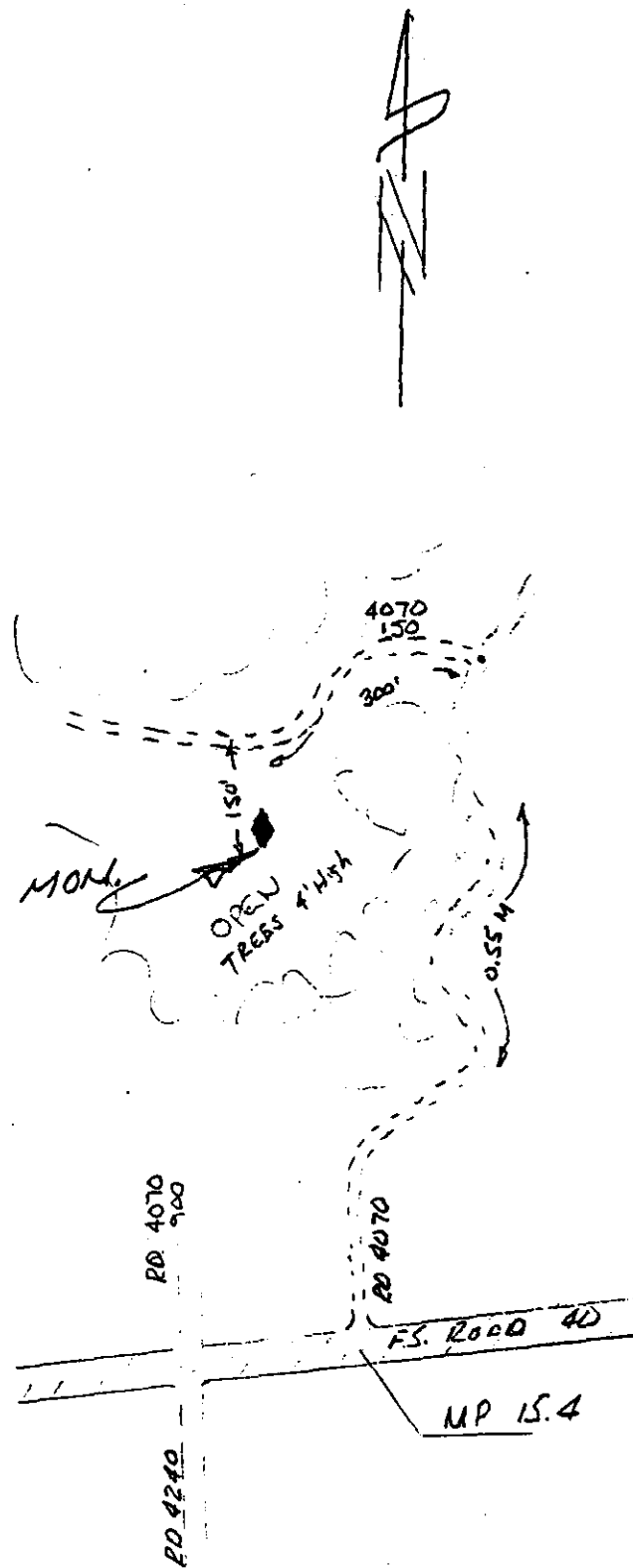
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 12.5 MI TO INTERSECTION WITH VANDERVERT ROAD, TURN LEFT ON VANDERVERT ROAD AND PROCEED WEST FOR 1.0 MI. TO THE INTERSECTION WITH SOUTH CENTURY DRIVE, TRUN RIGHT ON SOUTH CENTURY DRIVE AND PROCEED NORTH FOR 2.0 MI. TO THE INTERSECTION WITH SPRING RIVER ROAD. TURN LEFT AND PROCEED WEST ON SPRING RIVER ROAD (2.33 MI. NOW FOREST ROAD 40) FOR 13.3 MI. TO ROAD 4070, TURN LEFT ON RD. 4070 AND PROCEED NORTH 0.58 MI. TO ROAD 4070-150, TURN LEFT AND PROCEED FOR 0.07 MI. THE STATION ON THE LEFT IN A CLEARING.

THE STATION MARK IS A 3 1/2 IN. DISK IN A MASS OF CONCRETE AT GROUND LEVEL.
150 FEET SOUTH OF ROAD 4070-150
1 FOOT NORTH OF A WITNES POST

Location and reference sketch:

Name: 61-42

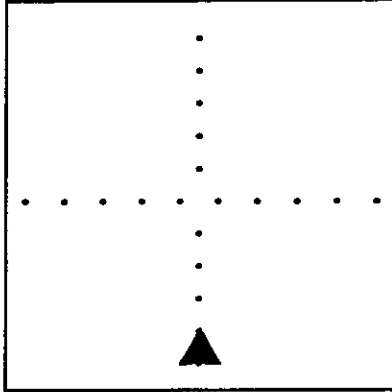
GIS #: 42



DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION

NAME: GIS 0043
GIS # 0043
ORDER C-1st. (GPS)

STATION LOCATION



T. 18 S.- R. 13 E., SEC. 3

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

LATITUDE: 44° 02' 14.18867" N
LONGITUDE: 121° 09' 11.29598" W

----- EC CARTESIAN -----
X: -2376271.397 METERS
Y: -3930942.789 METERS
Z: +4411808.635 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1062.666 METERS
NGVD 29 : 1082.159 METERS
NAVD 88 : 1083.318 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 263549.533±.003 METERS
EAST: 1447647.137±.003 METERS

SCALE FACTOR: 1.000009687
CONVERGENCE: - 0° 26' 48.63 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0043 1988 LS 1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 4.9 MILES EASTERLY OF BEND.

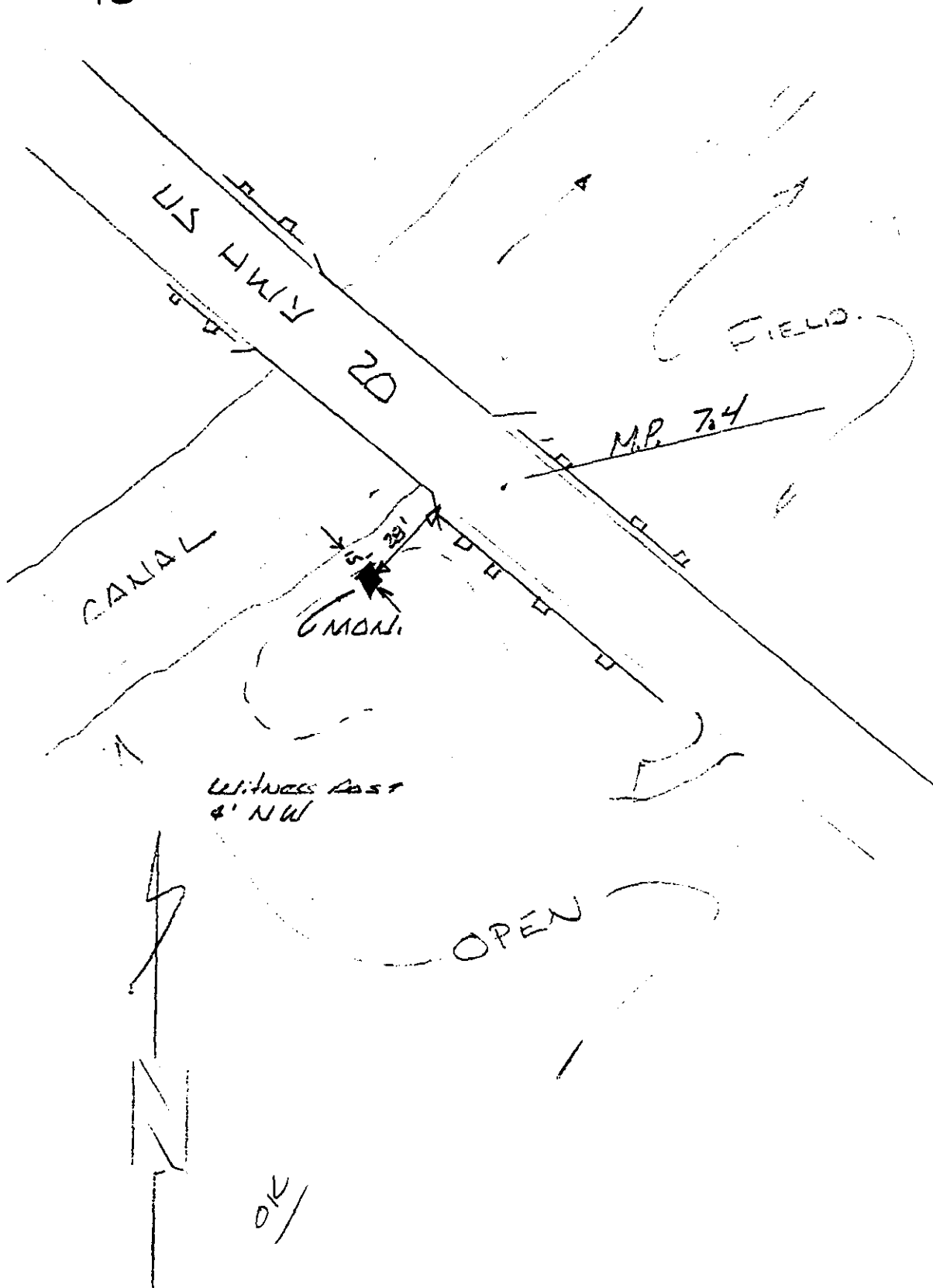
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI. TO THE INTERSECTION WITH 27th STREET; PROCEED EAST ON HWY 20 FOR 2.1 MI. TO THE STATION ON TRHE LEFT.

THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN A ROCK OUTCROP AT GROUND LEVEL 2 FEET ABOVE ROADWAY.
13.0 FEET SOUTH OF A WIRE FENCE
21 FEET NORTH FO THE NORTH EDGE OF PAVEMENT
2 FEET NORTH OF A WITNES POST

Location and reference sketch:

Name: GIS 43

GIS #: 43



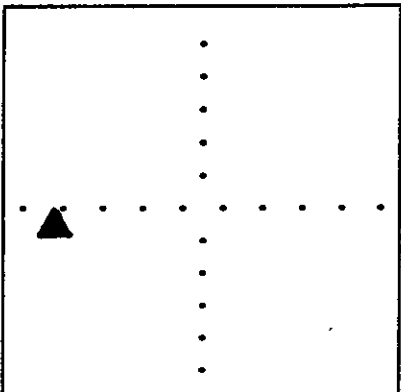
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0044 GIS # 0044 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 17 S.- R. 13 E., SEC.31</p>	<p>LATITUDE: 44° 03' 29.05825" N LONGITUDE: 121° 13' 19.40628" W</p> <p>----- EC CARTESIAN ----- X: -2380168.828 METERS Y: -3926713.490 METERS Z: +4413476.698 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1072.514 METERS NGVD 29 : 1092.084 METERS NAVD 88 : 1093.258 METERS ----- SPC -- OREGON SOUTH ----- NORTH: 265905.664±.003 METERS EAST: 1442142.883±.003 METERS</p> <p>SCALE FACTOR: 1.000015278 CONVERGENCE: - 0° 29' 38.38 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0044 1988 LS 1031
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 4.0 MILES EASTERLY OF BEND.

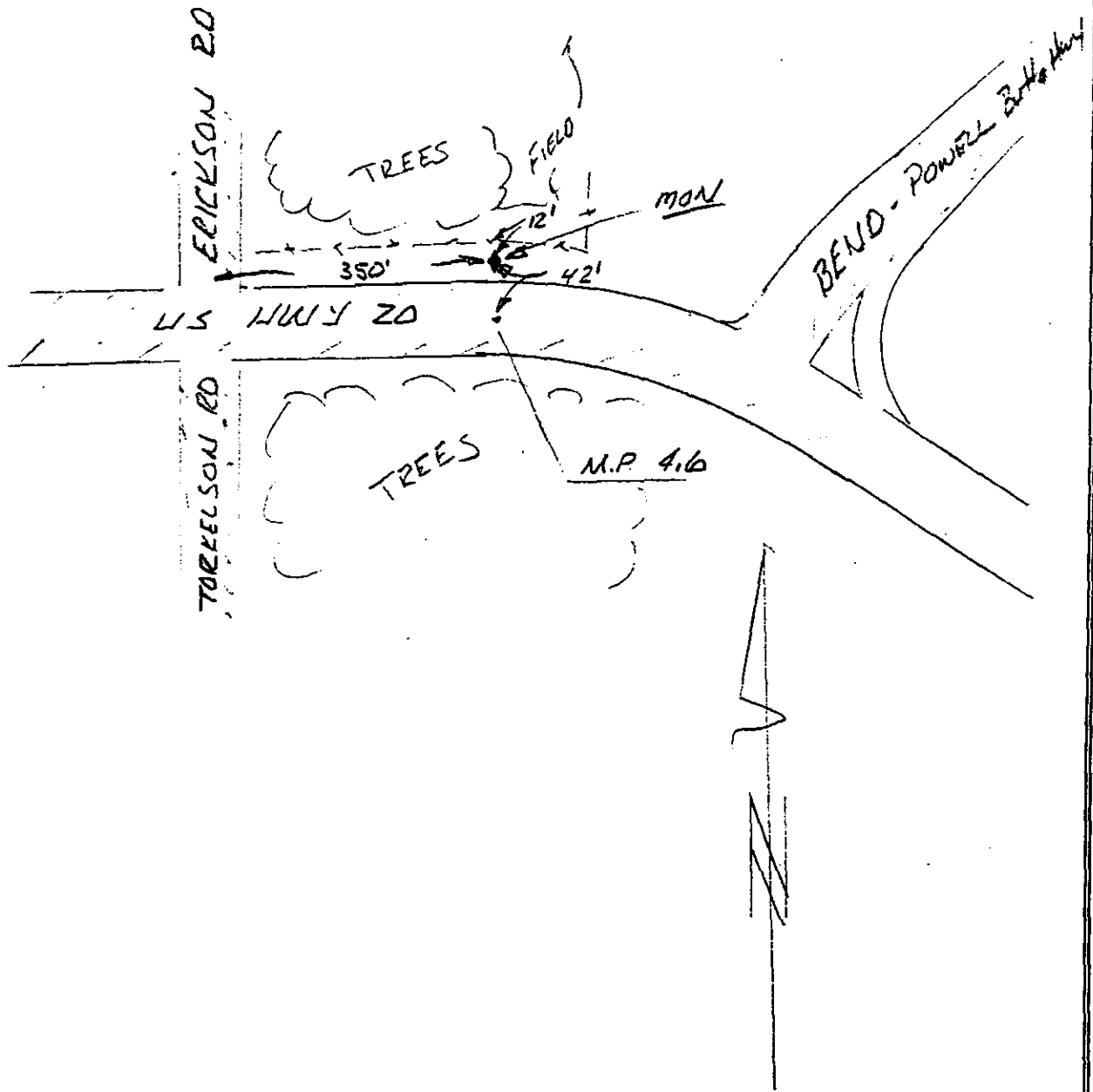
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI. TO THE INTERSECTION WITH 27th STREET; PROCEED EAST ON HWY 20 FOR 2.1 MI. TO THE STATION ON TRHE LEFT.

THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN A ROCK OUTCROP AT GROUND LEVEL 2 FEET ABOVE ROADWAY.
13.0 FEET SOUTH OF A WIRE FENCE
21 FEET NORTH FO THE NORTH EDGE OF PAVEMENT
2 FEET NORTH OF A WITNES POST

Location and reference sketch:

Name: GIS 44

GIS #: 44



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

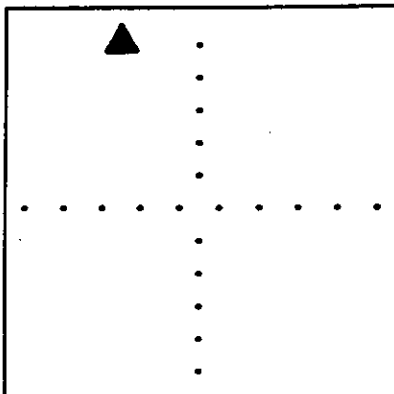
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: GIS 0045
GIS # 0045
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 18 S.- R. 12 E., SEC.14

LATITUDE: 44° 01' 18.86119" N
LONGITUDE: 121° 15' 37.12025" W

----- EC CARTESIAN -----
X: -2384255.491 METERS
Y: -3927537.569 METERS
Z: +4410616.609 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1114.408 METERS
NGVD 29 : 1133.921 METERS
NAVD 88 : 1135.085 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 261914.419±.002 METERS
EAST: 1439041.270±.002 METERS

SCALE FACTOR: 1.000005641
CONVERGENCE: - 0° 31' 12.59 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0045
AGENCY INSCRIPTION - DESCHUTES COUNTY SUTVEYORS OFFICE
THE STATION IS LOCATED ABOUT 3.5 MILES SOUTHEAST OF BEND

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI., TURN RIGHT ON SE 27TH STREET & PROCEED SOUTH FOR 2.35 MI., TURN LEFT AT THE DRIVE WAY TO THE DESCHUTES CO. PUBLIC WORKS DEPT., PROCEED 50 FEET AND KEEP LEFT ON THE NORTH DRIVE WAY FOR 300 FEET TO THE BACK GATE TO THE PUBLIC WORKS COMPOUND, CONTINUE EAST FOR 350 FEET TO THE STATION ON THE LEFT.

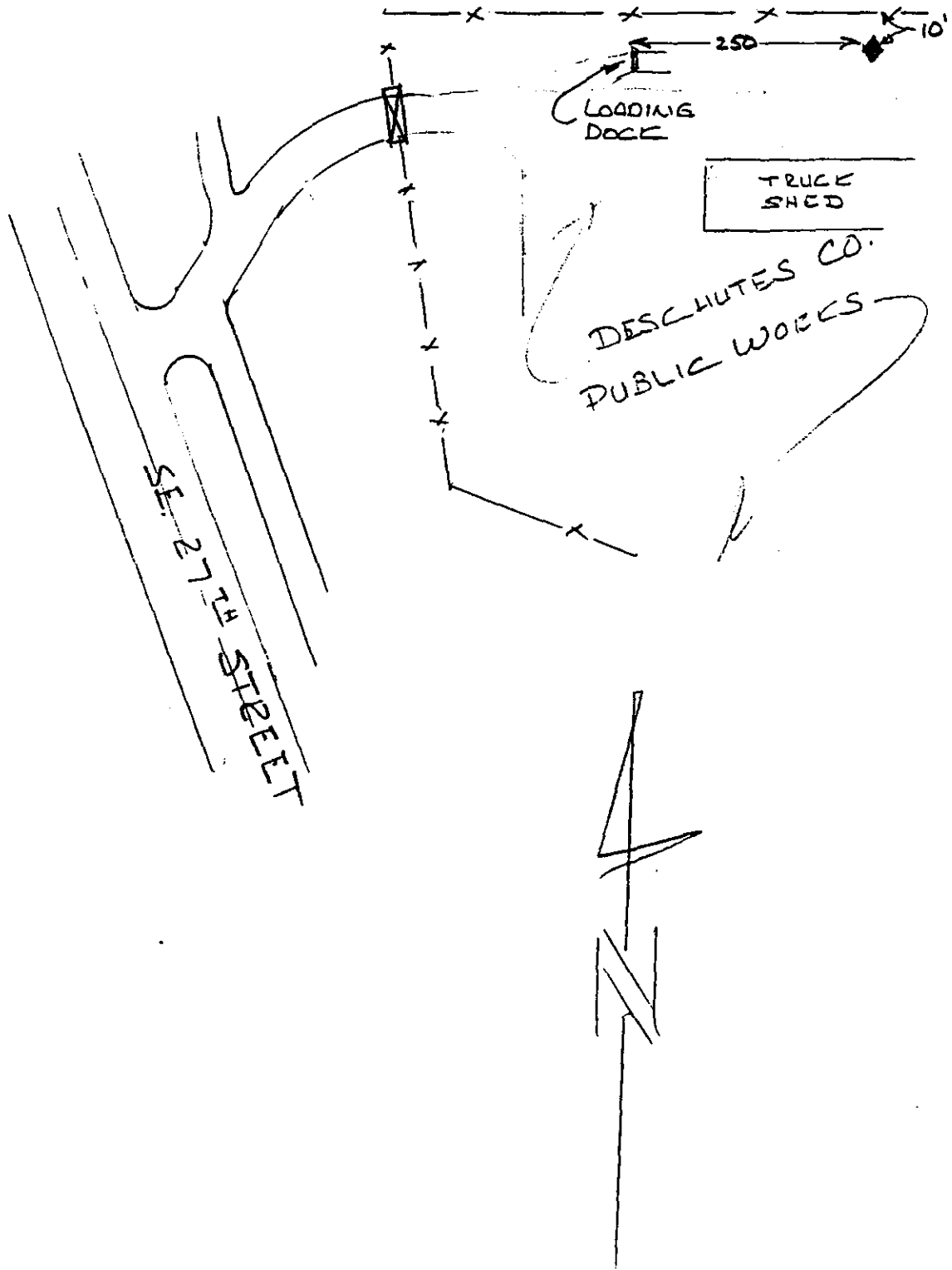
THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK IN A MASS OF CONCRETE AT GROUND LEVEL.
40 FEET NORTH OF THE EDGE OF PAVEMENT.
160 FEET EAST OF A CONCRETE LOADING DOCK.
6.0 FEET SOUTH OF A CHAIN LINK FENCE.

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

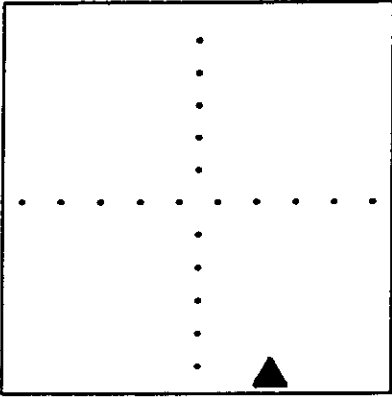
Location and reference sketch:

Name: GIS 45

GIS #: 45



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0048 GIS # 0048 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p> <hr/> <p>LATITUDE: 43° 42' 12.70220" N LONGITUDE: 121° 33' 07.42678" W</p> <p>----- EC CARTESIAN -----</p> <p>X: -2417114.774 METERS Y: -3936339.592 METERS Z: +4385220.596 METERS</p> <p>----- HEIGHT -----</p> <p>ELLIPSOIDAL: 1278.990 METERS NGVD 29 : 1298.595 METERS NAVD 88 : 1299.822 METERS</p> <p>---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 226796.616±.005 METERS EAST: 1415206.465±.004 METERS</p> <p>SCALE FACTOR: 0.999938163 CONVERGENCE: - 0° 43' 11.16 "</p>
<p>STATION LOCATION</p>  <p>T. 21 S.- R. 10 E., SEC.32</p>	

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
 MARK IS STAMPED - GIS 0048
 AGENCY INSCRIPTION - DESCHUTES COKUNTY SURVEYOR OFFICE
 THE STATION IS LOCATED ABOUT 3.5 MILES NORTHWEST OF LIPINE

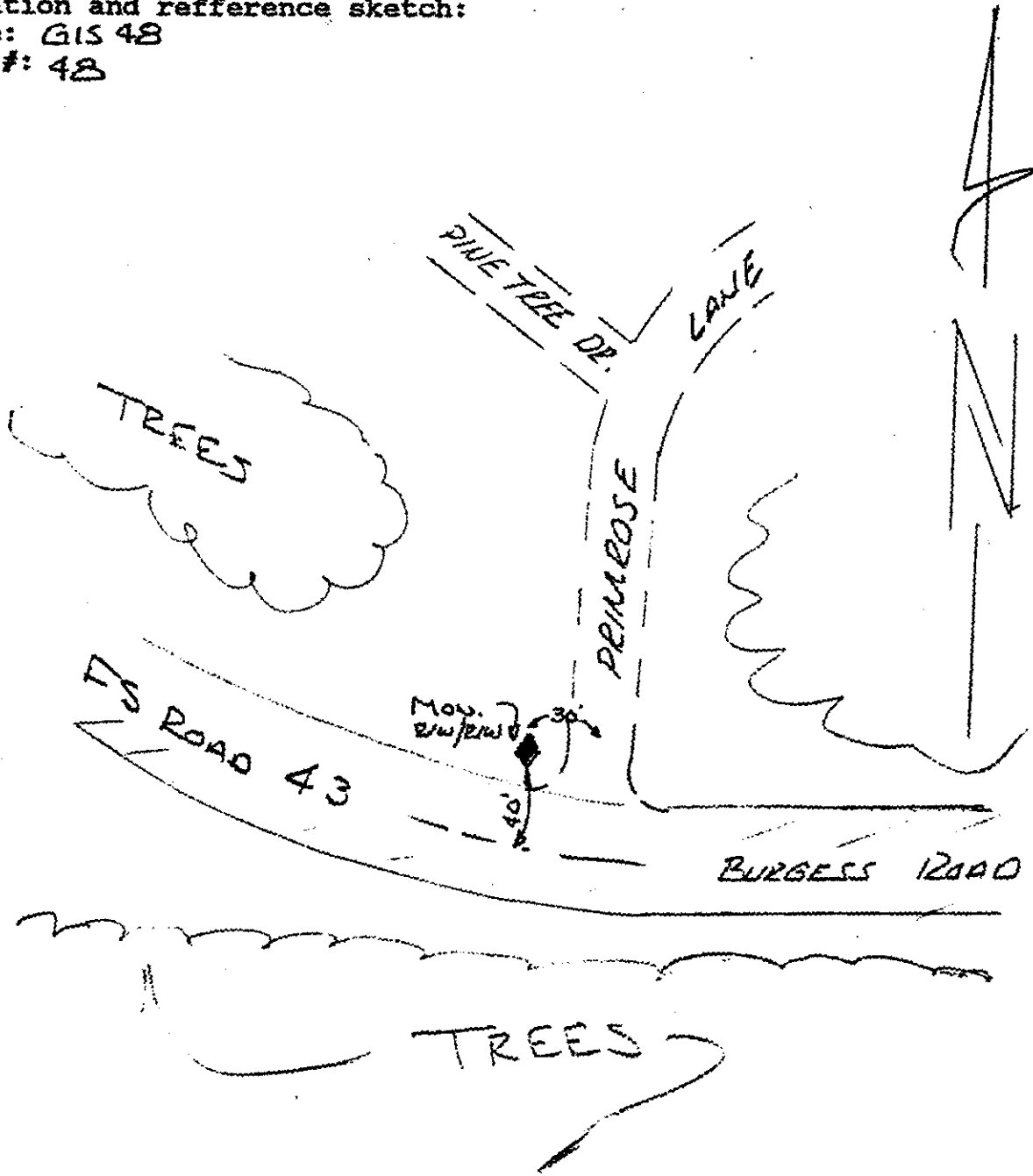
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 2.8 TO INTERSECTION WITH BURGESS COUNTY ROAD, TURN LEFT AND PROCEED 3.8 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A STANDARD DISK ON A 5/8 IN. IRON RON IN CONCRETE AT GROUND LEVEL. BEING SE. COR. OF LOT 1, BLK 8 OF FOREST VIEW FIRST ADD. SUBDIVISION.
 9 FEET WESTERLY FROM THE WEST EDGE OF PRIMROSE LANE
 11 FEET NORTHERLY FROM NORTH EDGE OF BURGESS ROAD
 1 SOUTH FROM A WITNES POST

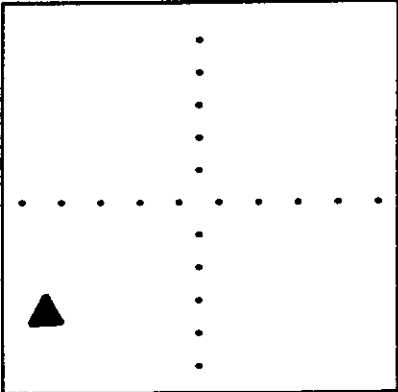
Location and reference sketch:

Name: GIS 48

GIS #: 48



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0068 GIS # 0068 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 17 S.- R. 11 E., SEC.12</p>	<p>LATITUDE: 44° 06' 46.17468" N LONGITUDE: 121° 21' 44.63437" W</p> <p>----- EC CARTESIAN ----- X: -2387568.959 METERS Y: -3917244.359 METERS Z: +4417833.558 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1052.362 METERS NGVD 29 : 1072.121 METERS NAVD 88 : 1073.292 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 272095.852±.004 METERS EAST: 1430960.622±.004 METERS</p> <p>SCALE FACTOR: 1.000030635 CONVERGENCE: - 0° 35' 24.03 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 68
AGENCY INSCRIPTION - DESCHUTES COUNTY PUBLIC WORKS
THE STATION IS LOCATED ABOUT 5 MILE NORTHWEST OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED WEST ON GREENWOOD AV. FOR 0.50 MI. TO THE INTERSECTION WITH WALL ST., PROCEED WESTWELY ON NEWPORT AV. 1.30 MI. TO POINT OF ROAD NAME CHANGE TO SHEVLEN PARK ROAD, CONTINUE ON SHEVLEN PARK ROAD FOR 2.70 MI. MORE TO ENTRANCE OF SHEVLEN PARK AND BEGINNING OF JOHNSON ROAD, PROCEED NORTHERLY ON JOHNSON ROAD FOR 2.3 MI TO THE INTERSECTION WITH TUMALO CREEK ROAD; PROCEED EAST FOR 270 FEET TO THE STATION ON THE RIGHT.

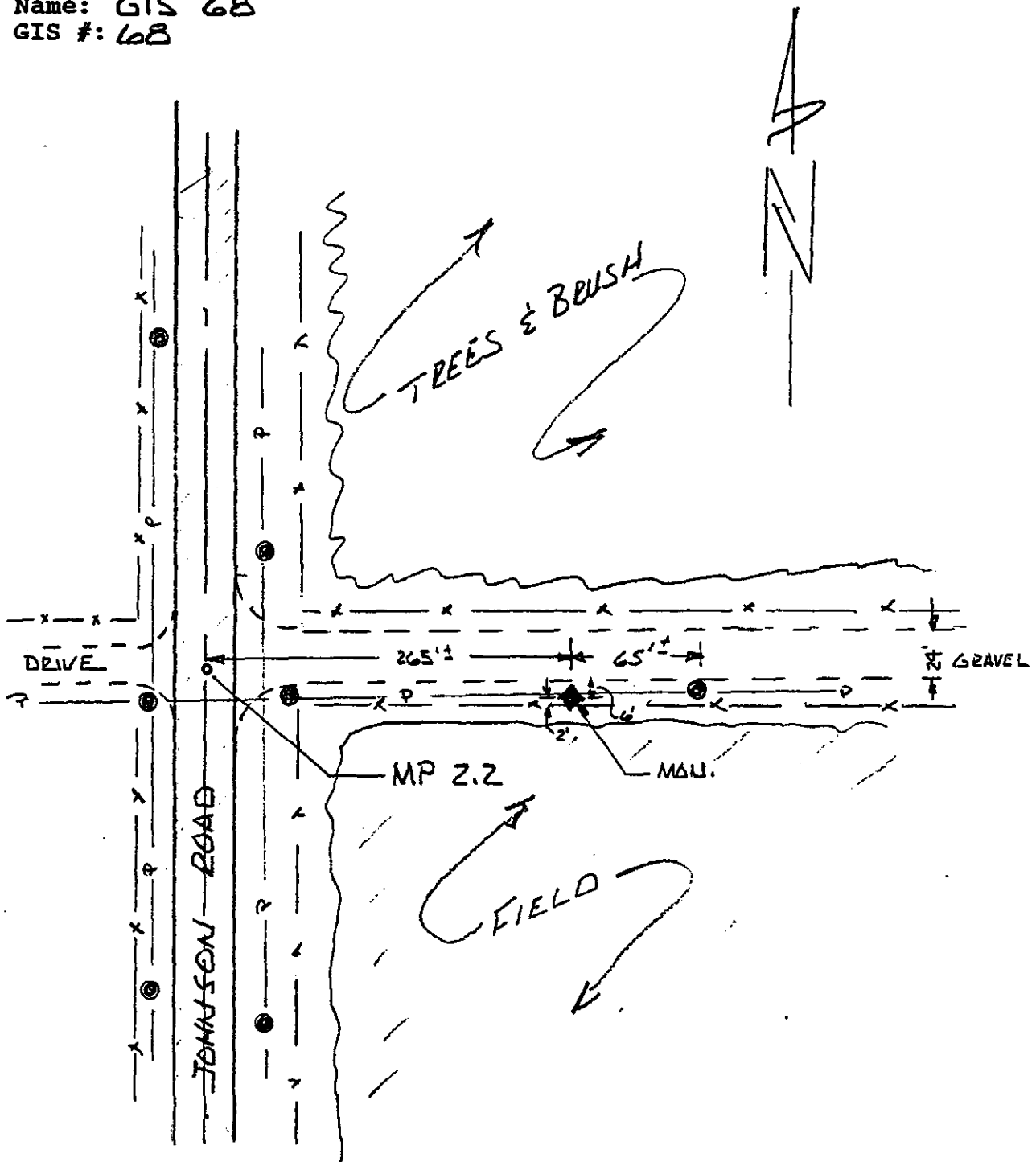
THE STATION MARK IS A 2 IN. ALUMINUM CAP ON A STEEL ROD IN A MASS OF CONCRETE 0.3 FT ABOVE GROUND LEVEL
1 FT. NORTH OF A WIRE FENCE LINE
1 FOOT SOUTH OF A WITNES POST
12 FEET SOUTH OF ROAD EDGE
270 FEET EAST OF JOHNSON ROAD

360 DEG. OF 15 DEG. MASK FOR GPS

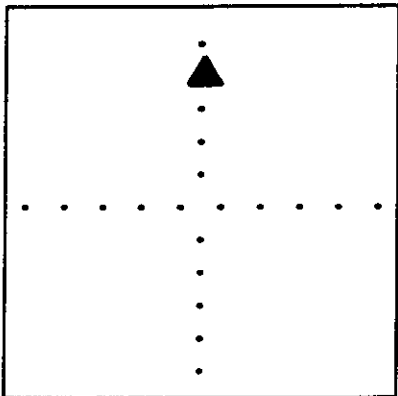
Location and reference sketch:

Name: GIS 68

GIS #: 68



**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0069 GIS # 0069 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 20 S.- R. 10 E., SEC.33</p>	<p>LATITUDE: 43° 48' 11.05519" N LONGITUDE: 121° 32' 05.68964" W</p> <p>----- EC CARTESIAN ----- X: -2411931.345 METERS Y: -3930536.028 METERS Z: +4393203.686 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1268.365 METERS NGVD 29 : 1287.869 METERS NAVD 88 : 1289.098 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 237837.872±.004 METERS EAST: 1416725.237±.004 METERS</p> <p>SCALE FACTOR: 0.999955916 CONVERGENCE: - 0° 42' 28.92 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - GIS 0069 1990
AGENCY INSCRIPTION - NONE
THE STATION IS LOCATED ABOUT 9 MILES NORTHEAST OF LAPINE

TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 12.5 MI TO INTERSECTION WITH VANDERVERT ROAD, TURN LEFT ON VANDERVERT ROAD AND PROCEED WEST FOR 1.0 MI. TO THE INTERSECTION WITH SOUTH CENTURY DRIVE, TRUN LEFT ON SOUTH CENTURY DRIVE AND PROCEED SOUTH AND THEN WESTERLY (1.43 MI LITTLE DESCHUTES RIVER) (3.93 MI. DESCHUTES RIVER) 6.06 MI TO FOREST ROAD # 4360, TURN LEFT ON RD # 4360 AND PROCEED SOUTH 0.14 MI TO THE STATION ON THE RIGHT.

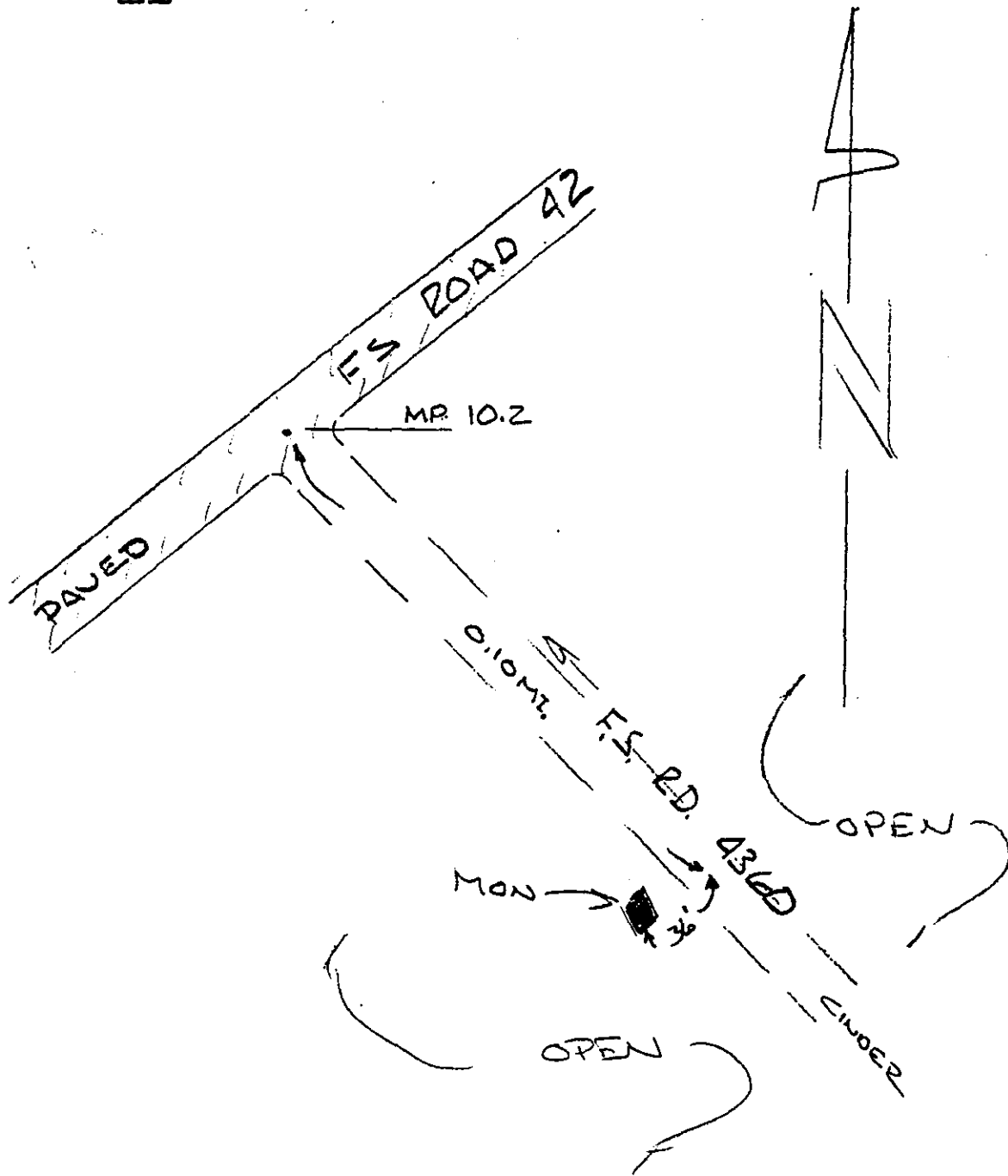
THE STATION MARK IS A 2 1/2 IN. DISK IN A MASS OF CONCRETE 0.1 FEET ABOVE GROUND LEVEL.

26 FEET SOUTHWESTERLY OF SOUTH EDGE OF ROAD
1 FOOT NORTHEASTERLY FROM A WITNES POST

Location and reference sketch:

Name: GIS 69

GIS #: 69



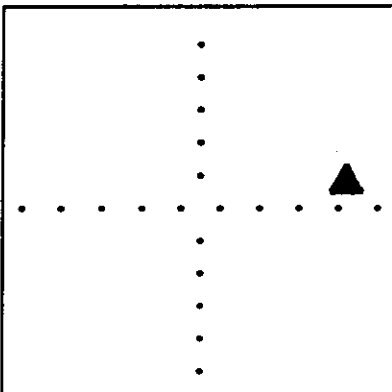
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0070 GIS # 0070 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 23 S.- R. 13 E., SEC.20</p>	<p>LATITUDE: 43° 33' 58.48657" N LONGITUDE: 121° 10' 34.83013" W</p> <p>----- EC CARTESIAN ----- X: -2396810.318 METERS Y: -3961294.737 METERS Z: +4374382.011 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1573.295 METERS NGVD 29 : 1592.308 METERS NAVD 88 : 1593.536 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 211232.980±.010 METERS EAST: 1445364.610±.008 METERS</p> <p>SCALE FACTOR: 0.999918657 CONVERGENCE: - 0° 27' 45.78 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER: 70
MARK IS STAMPED - GIS 00~~7~~ 1990
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 18 MILES EASTERLY OF LAPINE

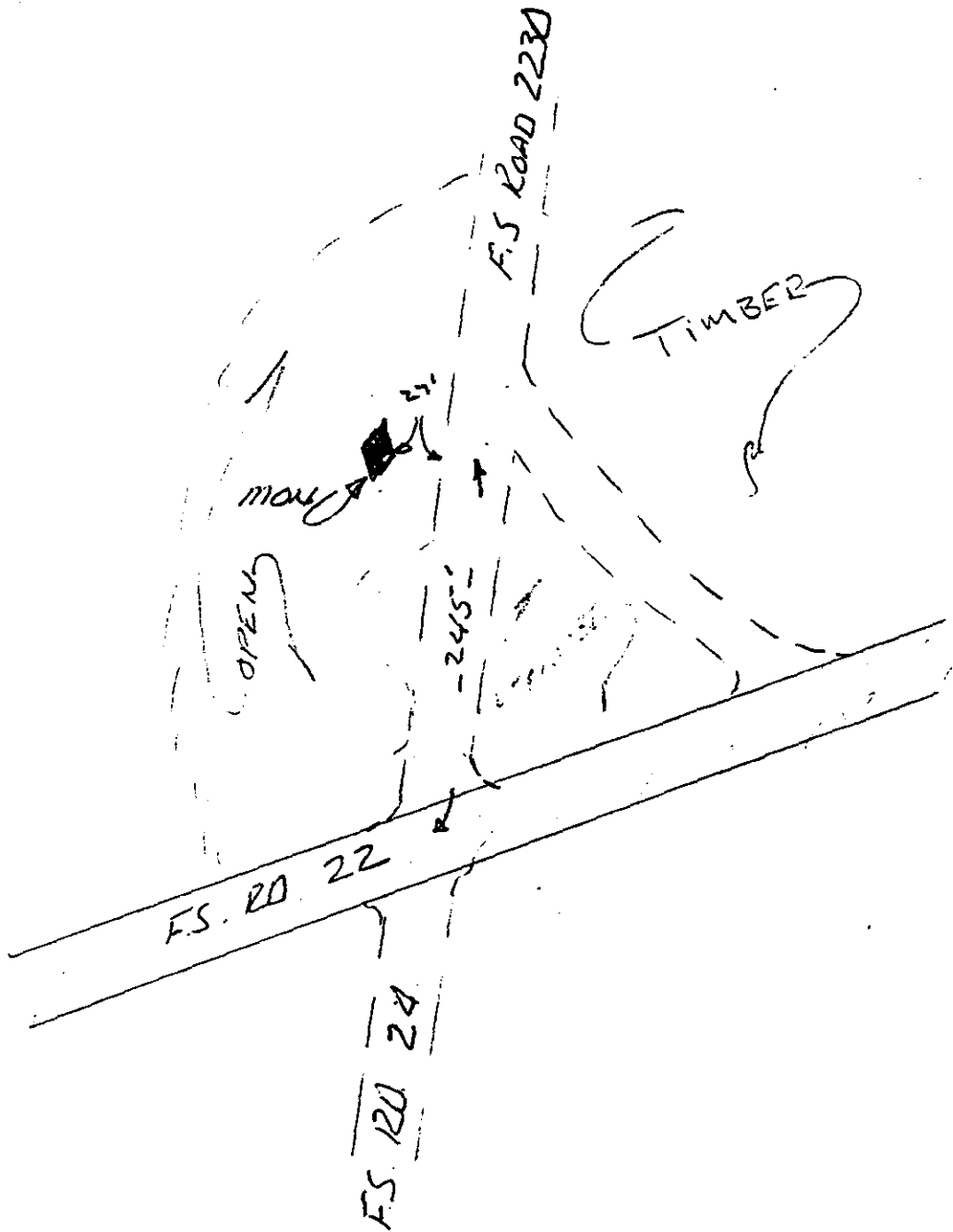
TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED EASTERLY ON FOREST ROAD 22 FOR 20.5 MI. TO FOREST ROAD 2230, TURN LEFT AND PROCEED NORTH FOR 260 FEET TO THE STATION ON THE LEFT.

THE STATION MARK IS A 3 1/2 IN. ALUM CAP ON A IRON PIPE IN A MASS OF CONCREET AT GROUND LEVEL.
42 FEET WEST OF THE CENTER OF ROAD 2230
1 FOOT SOUTH OF A WITNESS POST
4 FEET BELOW ROAD LEVEL

Location and reference sketch:

Name: GIS 70

GIS #: 70



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

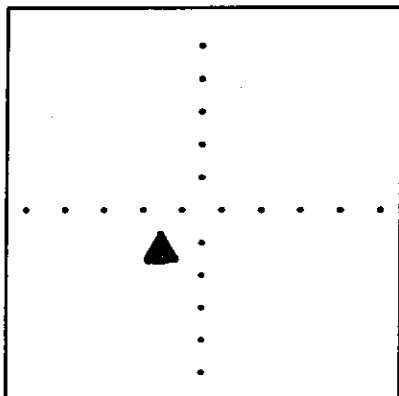
(503) 382-4285

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: GIS 0072
GIS # 0072
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 22 S.- R. 14 E., SEC.04

LATITUDE: 43° 41' 44.65967" N
LONGITUDE: 121° 03' 59.01391" W

----- EC CARTESIAN -----
X: -2384092.898 METERS
Y: -3957402.337 METERS
Z: +4384821.586 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1607.332 METERS
NGVD 29 : 1626.121 METERS
NAVD 88 : 1627.329 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 225552.979±.009 METERS
EAST: 1454343.515±.008 METERS

SCALE FACTOR: 0.999936902
CONVERGENCE: - 0° 23' 14.99 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - GIS 0072
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE
THE STATION IS LOCATED ABOUT 14 MI. SOUTHWEST OF MILLICAN.

TO REACH THE STATION FROM MILLICAN, GO WESTERLY ON HWY 20 FOR 3.7 MI., TURN LEFT ON SPENCER WELLS ROAD (FOREST ROAD 23) PROCEED SOUTH FOR 5.9 MI. TO FOREST RD 25, TURN RIGHT ON RD. 25 AND PROCEED SOUTH & WEST FOR 4.8 MI. TO THE INTERSECTION WITH FOREST ROAD 18. TURN LEFT ON RD 18 AND PROCEED SOUTH FOR 7.7 MI. TO THE JUNCTION WITH FOREST ROAD 21. TURN RIGHT ON RD.21 AND PROCEED WEST FOR 0.7 MI. TO THE STATION ON THE LEFT.

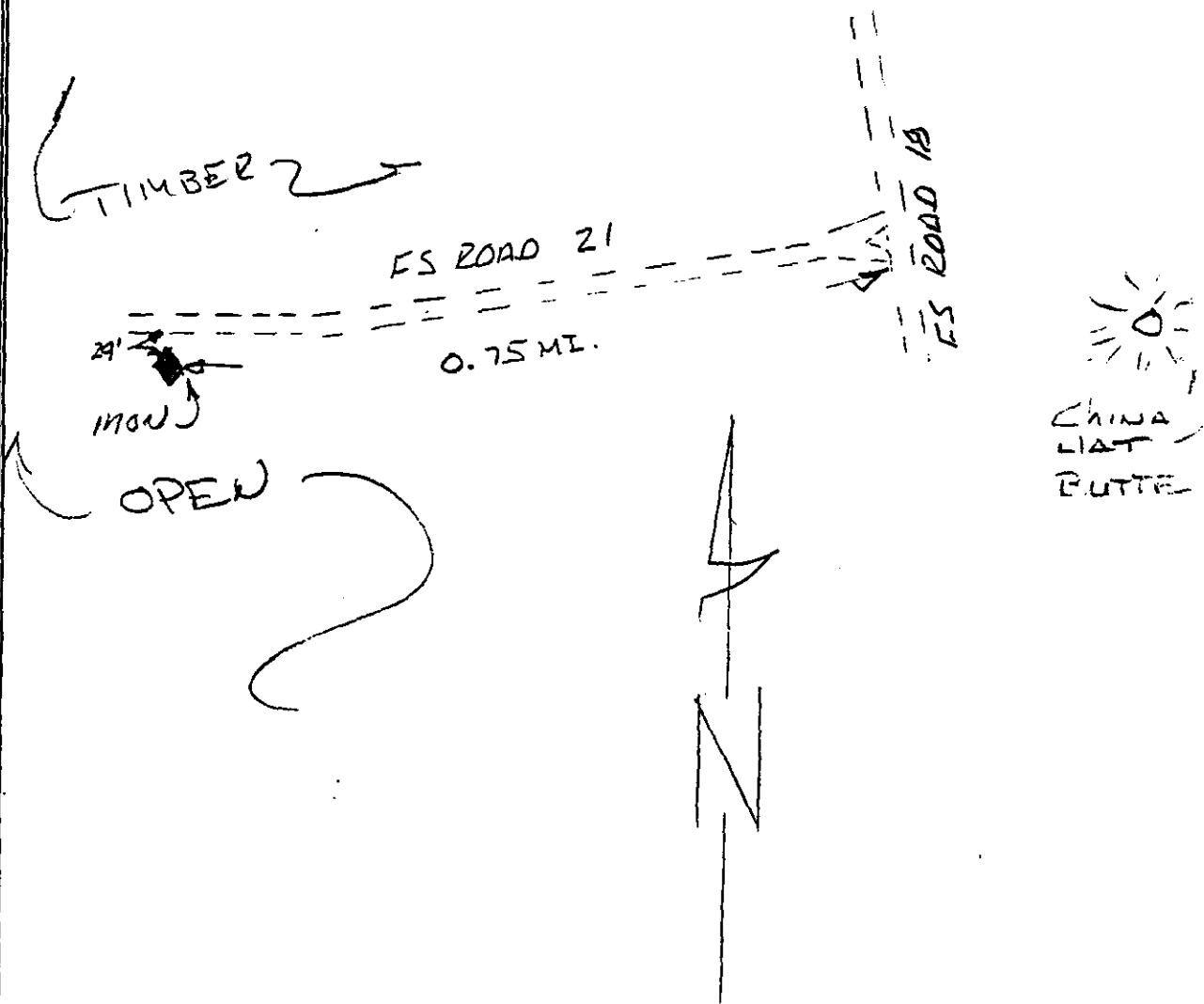
THE STATION MARK IS A 3 1/2 IN. STANDARD CAP ON A IRON PIPE IN A MASS OF CONCRETE ABOUT 2 IN ABOVE GROUND LEVEL.

15 FEET SOUTH OF ROAD EDGE.
1 FEET NORTH OF A WITNES POST.

Location and reference sketch:

Name: GIS 72

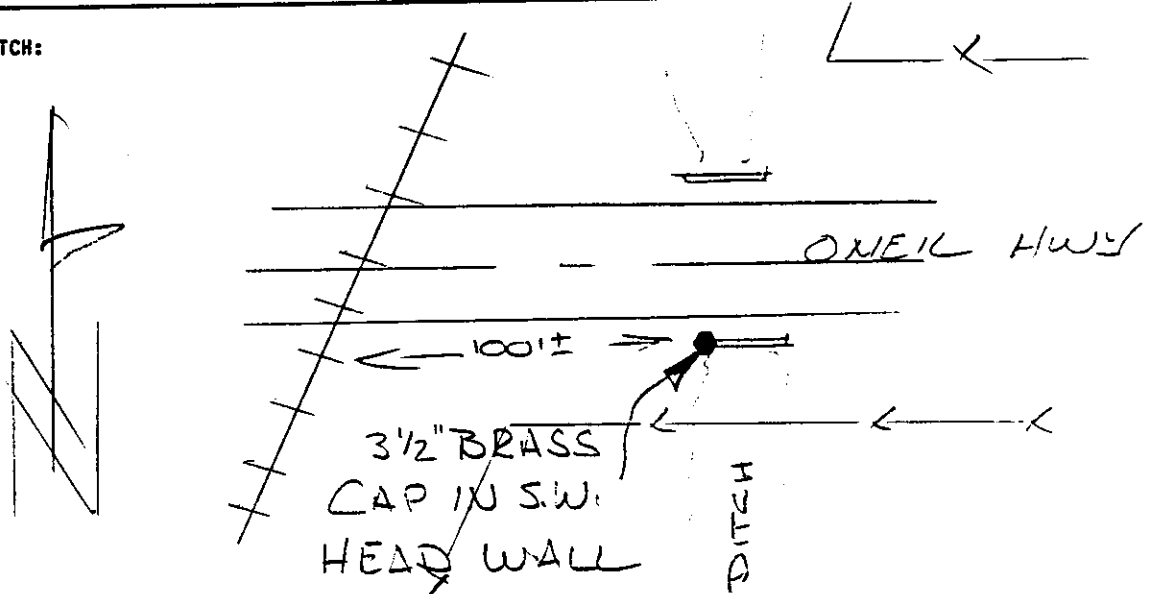
GIS #: 72



CONTROL MARK DATA

NAME OF MARK: H-478 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1941 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

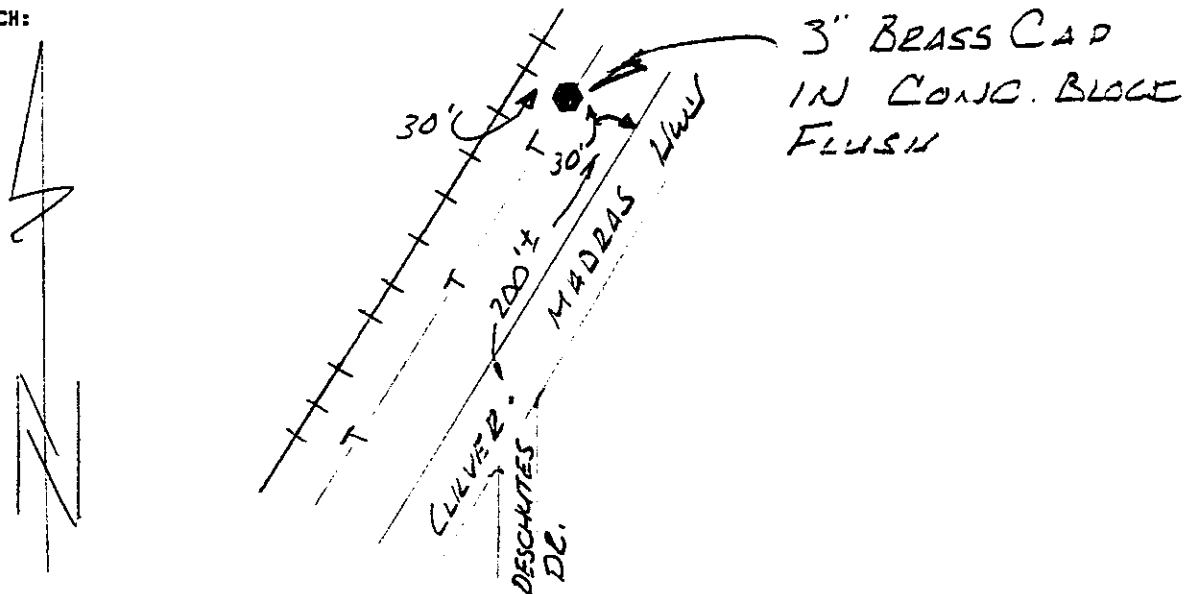
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>H-478</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°19'11.650410"	ONE SIGMA ERROR
Longitude:	121°09'04.752914"	
Northing:	481235.413	0.013
Easting:	3334556.7412	0.012
Convergence:	+ 0°05'32.0383"	
Scale Factor:	1.000161363587	
Ellipsoid Height:	2879.052	0.017
Orthometric Height:	2944.1109	FIXED
Geoid Height:	-65.0589	

CONTROL MARK DATA

NAME OF MARK: J-366 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1938 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

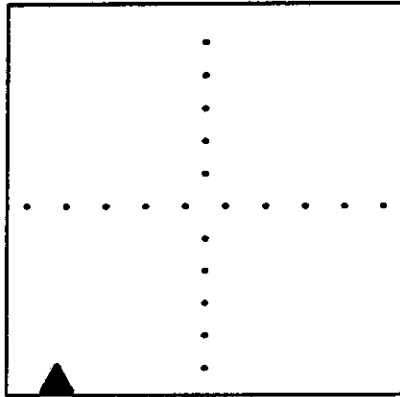
<u>MARK:</u> <u>J-366</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°34'28.090493"	ONE SIGMA ERROR
Longitude:	121°11'23.516722"	
Northing:	574043.8049	0.010
Easting:	3324360.7451	0.009
Convergence:	+ 0°03'56.1561"	
Scale Factor:	1.000160677598	
Ellipsoid Height:	2480.3582	0.018
Orthometric Height:	2546.3896	0.070
Geoid Height:	-66.0314	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: J-372 1943
GIS # 0058
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 19 S.- R. 15 E., SEC.31

LATITUDE: 43° 52' 26.95459" N
LONGITUDE: 120° 59' 04.31007" W

----- EC CARTESIAN -----
X: -2371247.514 METERS
Y: -3948833.184 METERS
Z: +4398902.226 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1269.286 METERS
NGVD 29 : 1288.326 METERS
NAVD 88 : 1289.523 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 245333.680±.006 METERS
EAST: 1461056.966±.006 METERS

SCALE FACTOR: 0.999970454
CONVERGENCE: - 0° 19' 53.37 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - J 372 1943
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 3 MI. WESTERLY OF MILLICAN.

TO REACH THE STATION FROM MILLICAN, GO WESTERLY ON HWY 20 FOR 3.7 MI., TURN LEFT ON SPENCER WELLS ROAD (FOREST ROAD 23) PROCEED SOUTH FOR 1.85 MI. TURN LEFT ON A DIRT ROAD AND PROCEED WEST FOR 680 FEET TO THE STATION ON THE LEFT.

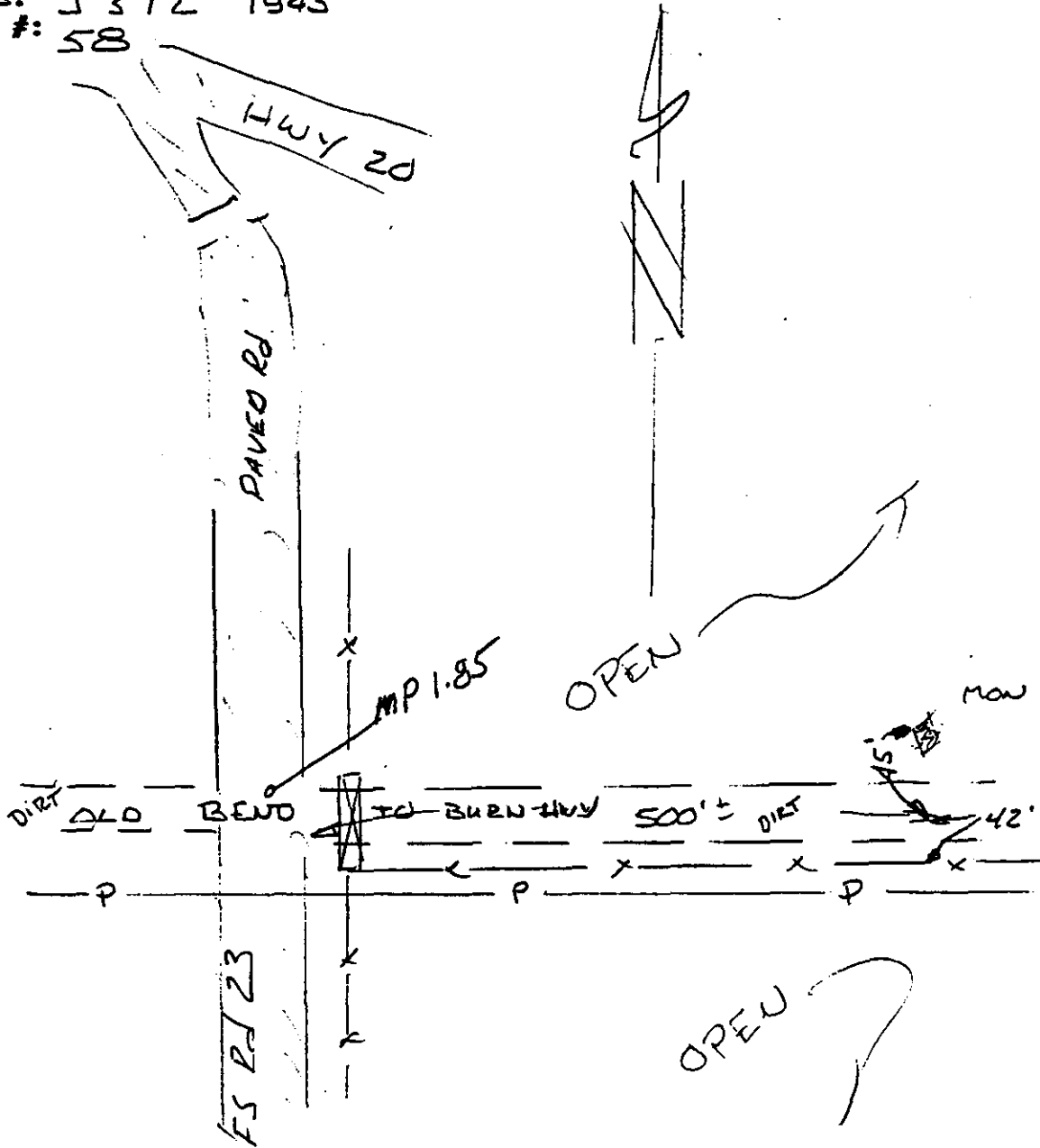
THE STATION MARK IS A 3 1/2 IN. BRASS CAP IN A CONCRETE POST 0.6 FEET ABOVE GROUND LEVEL.
60 FEET NORTH OF A WIRE FENCE
680 FEET EAST OF THE CENTER LINE SPENCER WELLS RD.
1 FEET SOUTH OF A WITNES POST
45 FEET NORTH OF THE DIRT ROAD.

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

Location and reference sketch:

Name: J 372 1943

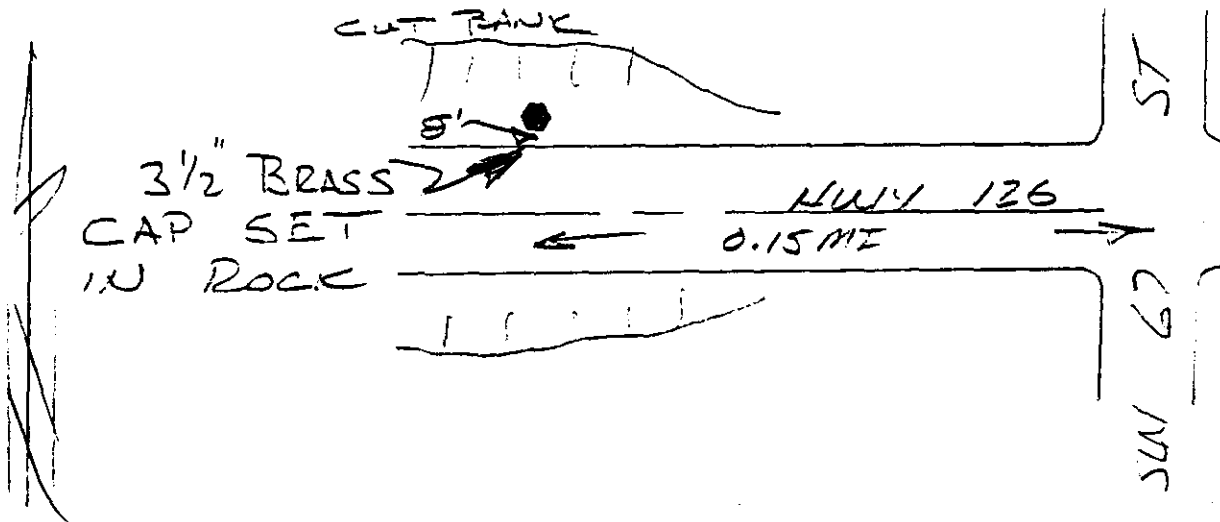
GIS #: 58



CONTROL MARK DATA

NAME OF MARK: J-735 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 15 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

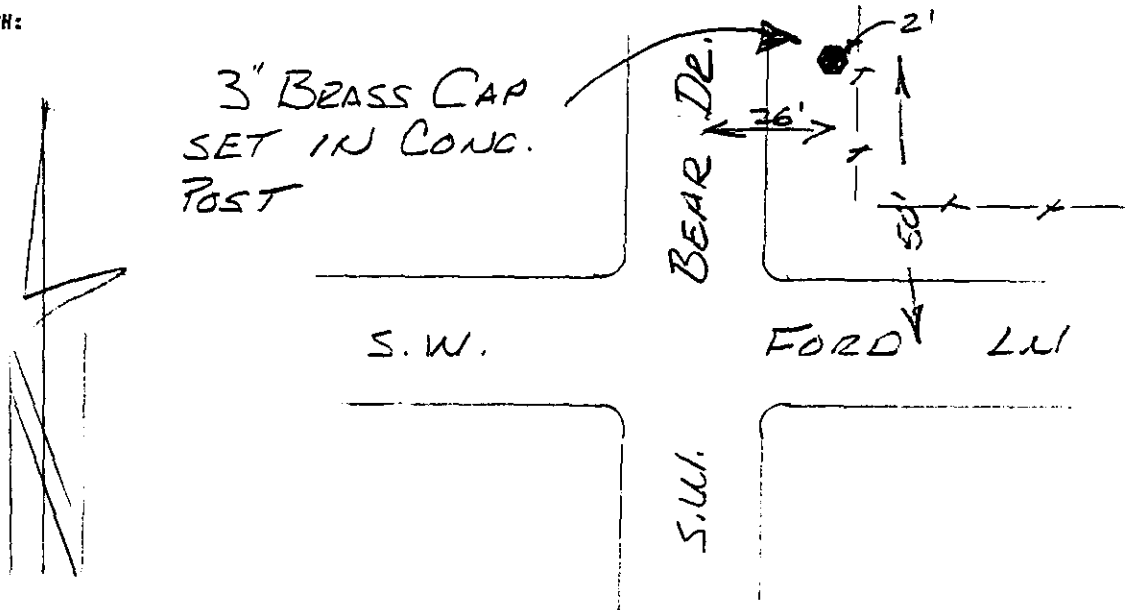
GEODETIC AND MAPPING COORDINATES

<u>MARK: J-735</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°16'23.382607"	ONE SIGMA ERROR
Longitude:	121°15'16.011370"	
Northing:	464166.2624	0.011
Easting:	3307567.3474	0.011
Convergence:	+ 0°01'12.5924"	
Scale Factor:	1.000160065390	
Ellipsoid Height:	2853.8441	0.015
Orthometric Height:	2919.357	FIXED
Geoid Height:	-65.5129	

CONTROL MARK DATA

NAME OF MARK: K-336 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1938 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 12 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

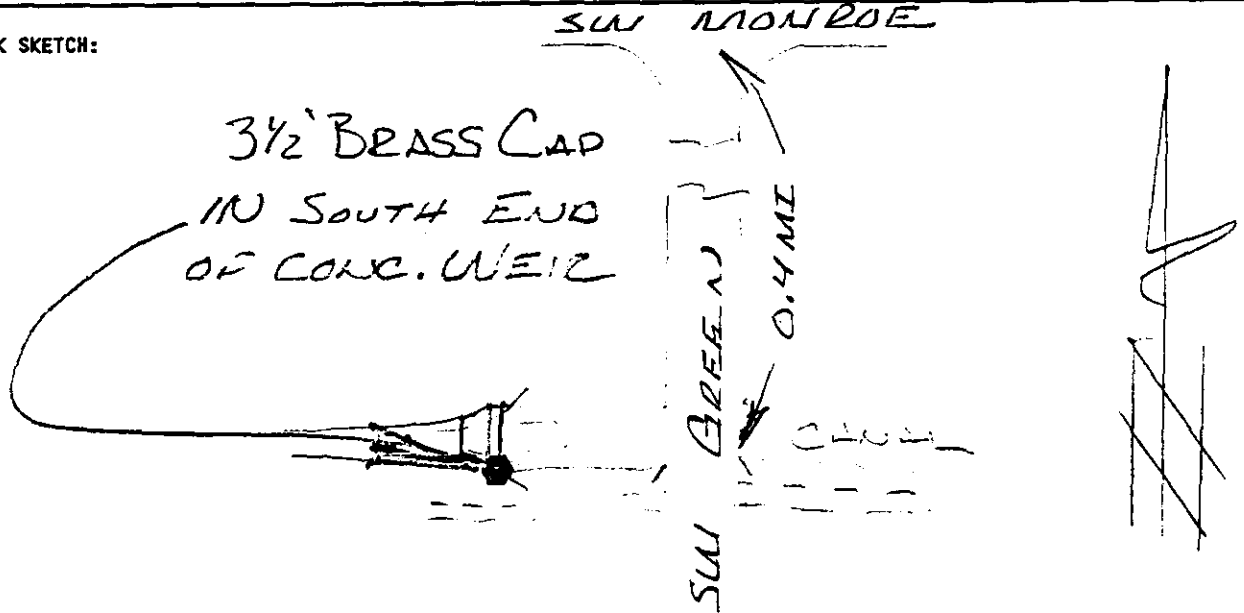
GEODETIC AND MAPPING COORDINATES

<u>MARK: K-336</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°33'10.667842"	ONE SIGMA ERROR
Longitude:	121°09'34.387246"	
Northing:	566212.3504	0.011
Easting:	3332273.3985	0.011
Convergence:	+ 0°05'12.6280"	
Scale Factor:	1.000161189277	
Ellipsoid Height:	2541.6426	0.020
Orthometric Height:	2607.219	FIXED
Geoid Height:	-65.5764	

CONTROL MARK DATA

NAME OF MARK: JUIN AZ NO.2 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1974 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 13 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



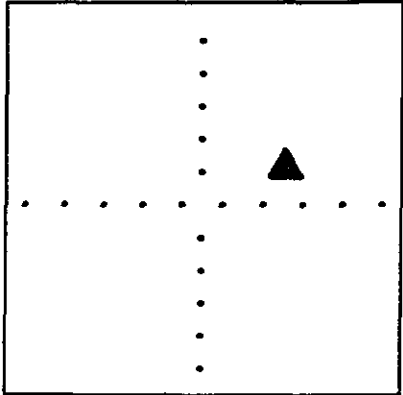
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK: JUIN AZ NO.2</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°27'36.586625"	ONE SIGMA ERROR
Longitude:	121°14'59.393960"	
Northing:	532351.6863	0.008
Easting:	3308748.7334	0.008
Convergence:	+ 0°01'24.4741"	
Scale Factor:	1.000160087396	
Ellipsoid Height:	2800.306	0.014
Orthometric Height:	2866.0248	0.076
Geoid Height:	-65.7189	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: PINE USGS 1932 GIS # 0056 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p>T. 20 S.- R. 15 E., SEC.21</p>	<p>LATITUDE: 43° 49' 19.66593" N LONGITUDE: 120° 55' 50.31372" W</p> <p>----- EC CARTESIAN ----- X: -2369837.538 METERS Y: -3954908.402 METERS Z: +4395192.686 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1933.627 METERS NGVD 29 : 1952.427 METERS NAVD 88 : 1953.631 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 239529.875±.008 METERS EAST: 1465358.318±.007 METERS</p> <p>SCALE FACTOR: 0.999959662 CONVERGENCE: - 0° 17' 40.64 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - PINE 1932
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 4.0 MILES SOUTHERLY OF MILLICAN.

TO REACH THE STATION FROM MILLICAN, GO EASTERLY ON HWY 20 FOR 0.2 MI. AND TURN RIGHT ON THE PINE MOUNTAIN ROAD (FOREST ROAD 2017) AND PROCEED SOUTHERLY FOR 6.86 MI., TURN RIGHT ON FOREST ROAD 2017-350 AND PROCEED NORTHERLY ALONG RIDGE LINE TO END OF ROAD. WALK NORTHERLY ALONG TRAIL FOR 1100 FEET MORE OR LESS TO STATION ON HIGHEST POINT ON NORTH OF RIDGE.

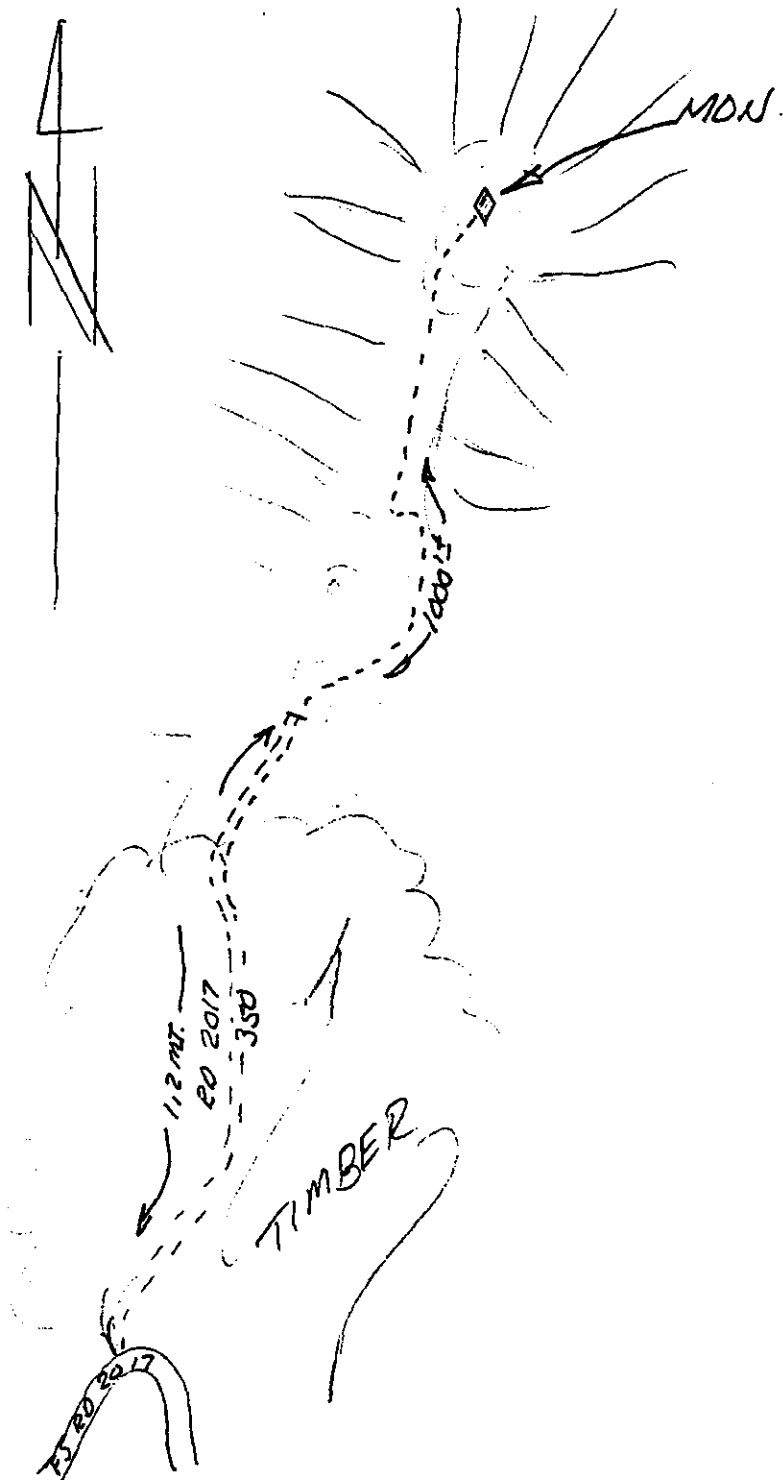
THE STATION MARK IS A 3 1/2 IN. BRASS CAP GROUTED IN A ROCK OUTCROP AT GROUND LEVEL.

DUGOUT SHELTER W/ROCK WALL S 53 E 19 FEET (NO WIND)

Location and reference sketch:

Name: PINE 1932

GIS #: 56

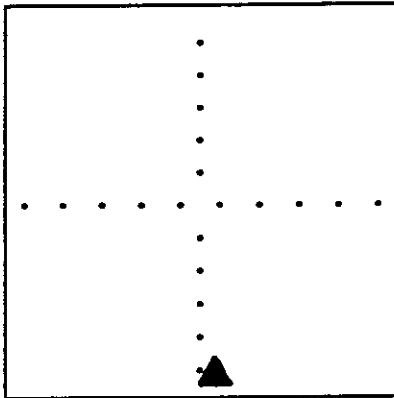


**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: PAULINA PEAK BM USGS 1933
GIS # 0053
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 22 S.- R. 12 E., SEC.02

LATITUDE: 43° 41' 21.10573" N
LONGITUDE: 121° 15' 17.60078" W

----- EC CARTESIAN -----
X: -2397662.850 METERS
Y: -3950465.976 METERS
Z: +4384853.472 METERS

----- HEIGHT -----
ELLIPSOIDAL: 2414.633 METERS
NGVD 29 : 2433.229 METERS
NAVD 88 : 2434.442 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 224945.975±.008 METERS
EAST: 1439142.777±.007 METERS

SCALE FACTOR: 0.999935857
CONVERGENCE: - 0° 30' 59.24 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

SURFACE MARKER:
MARK IS STAMPED - PAULINA PEAK BM 1931 (SEE NOTE)
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 12.5 MILES EASTERLY OF LIPINE

TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 6.3 TO INTERSECTION WITH PAULINA LAKE RD. (FOREST RD. 21) TURN RIGHT AND PROCEED EASTERLY FOR 12.5 MI. TO FOREST RD. #500, TURN RIGHT AND PROCEED 3.9 MI TO THE TOP OF PAULINA PEAK PARKING LOT AND THE STATION ON THE LEFT ON THE HIGH ROCK PEAK.

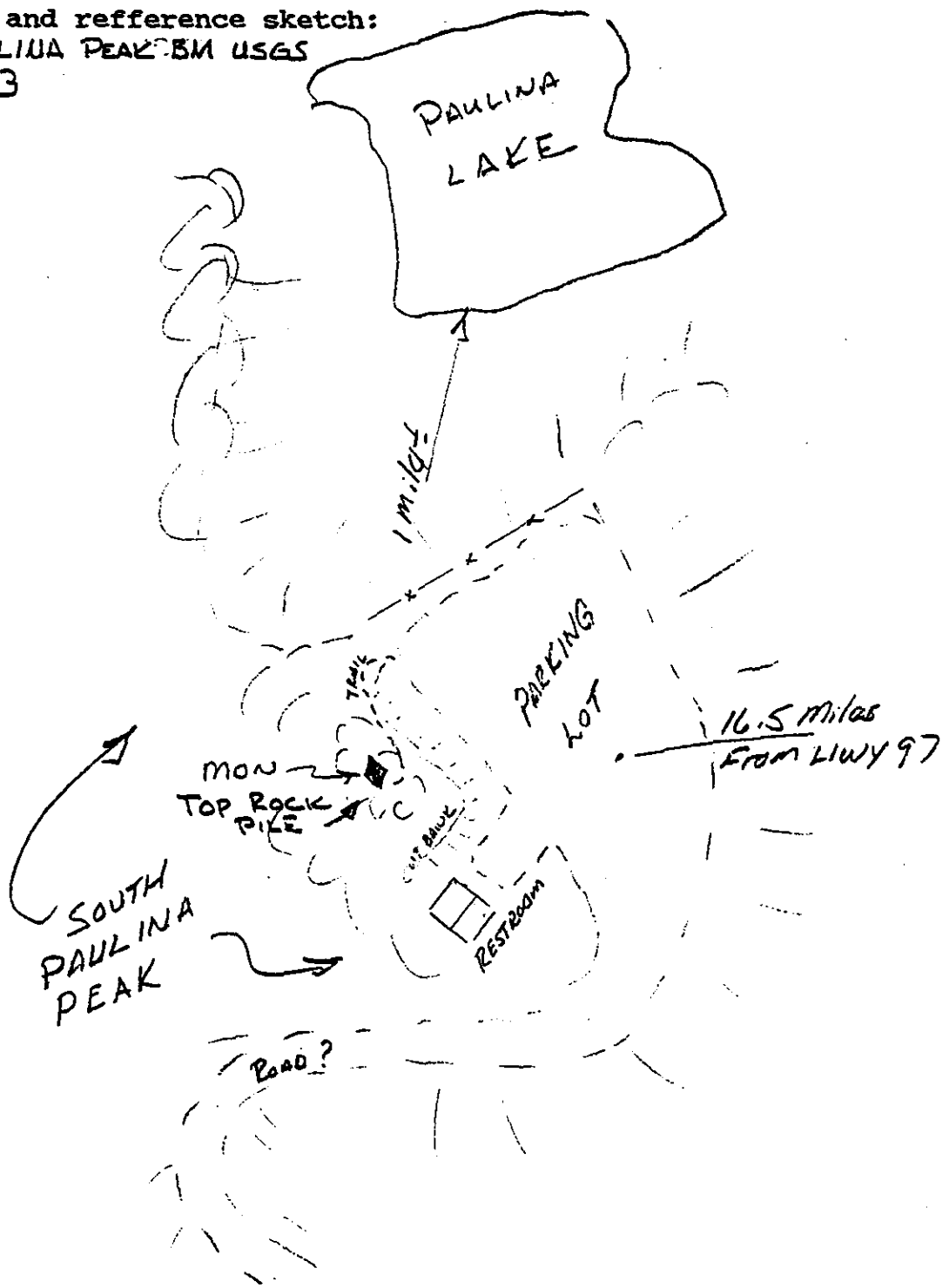
THE STATION MARK IS A STANDARD USGS 3 1/2 IN DISK GROUTED IN ROCK PEAK.
6 FEET WEST OF OLD ROCK INFORMATION SIGN
100 FEET NORTH OF BATHROOMS

NOTE: THE TOP OF CAP IS POOR CONDITION

Location and reference sketch:

Name: PAULINA PEAK BM USGS

GIS #: 53



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

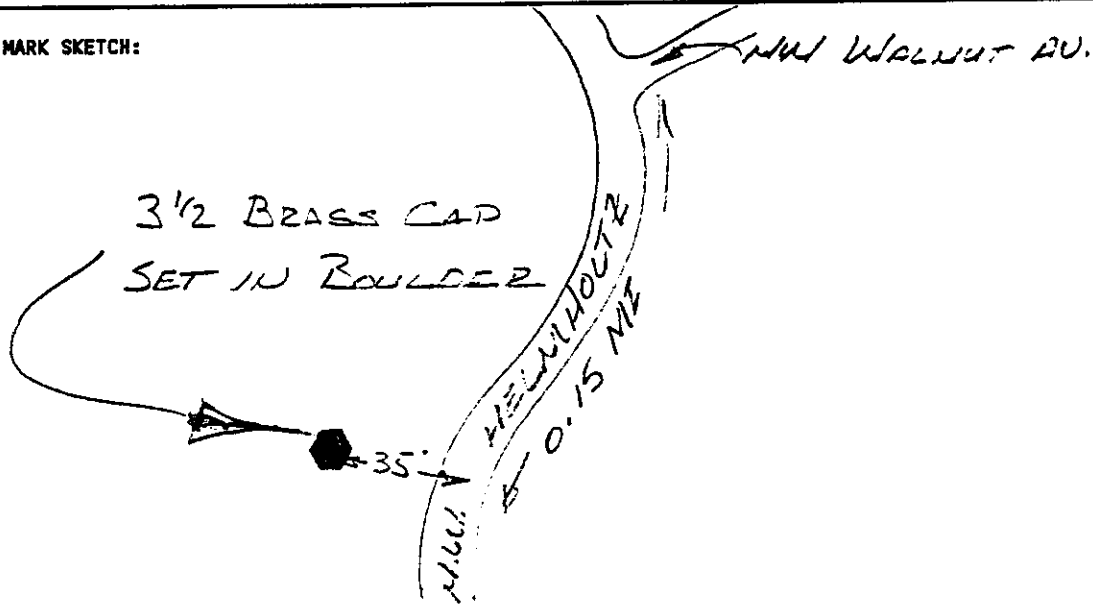
Bend, Oregon. 97702

(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: Q-419 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1946 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

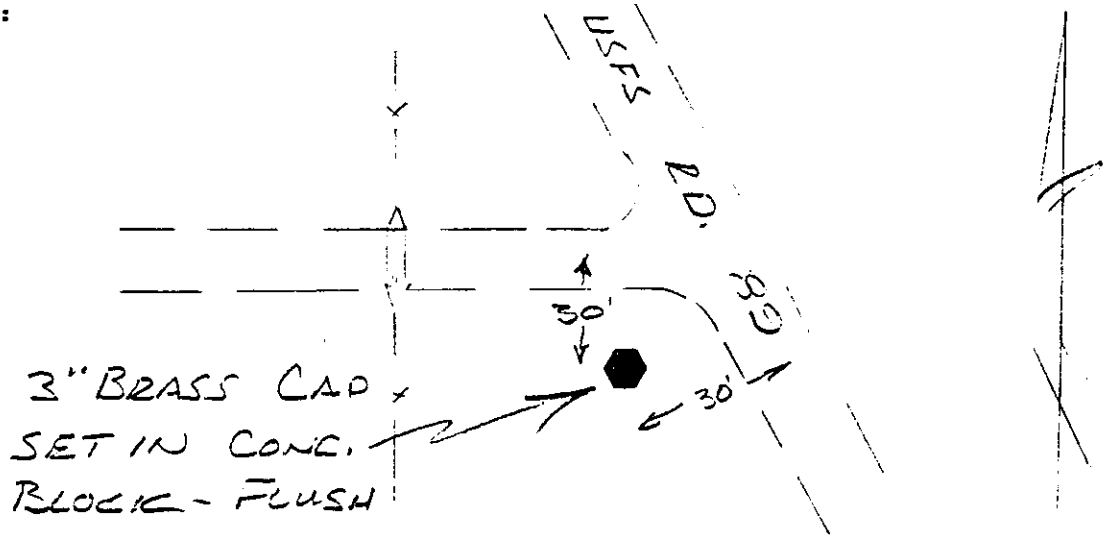
GEODETTIC AND MAPPING COORDINATES

<u>MARK: Q-419</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°18'24.818991"	ONE SIGMA ERROR
Longitude:	121°13'07.666356"	
Northing:	476471.0055	0.011
Easting:	3316897.4571	0.010
Convergence:	+ 0°02'42.2854"	
Scale Factor:	1.000160326033	
Ellipsoid Height:	2756.1253	0.014
Orthometric Height:	2821.5223	FIXED
Geoid Height:	-65.397	

CONTROL MARK DATA

NAME OF MARK: Q-336 COUNTY: JEFFERSON
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1938 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 12 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

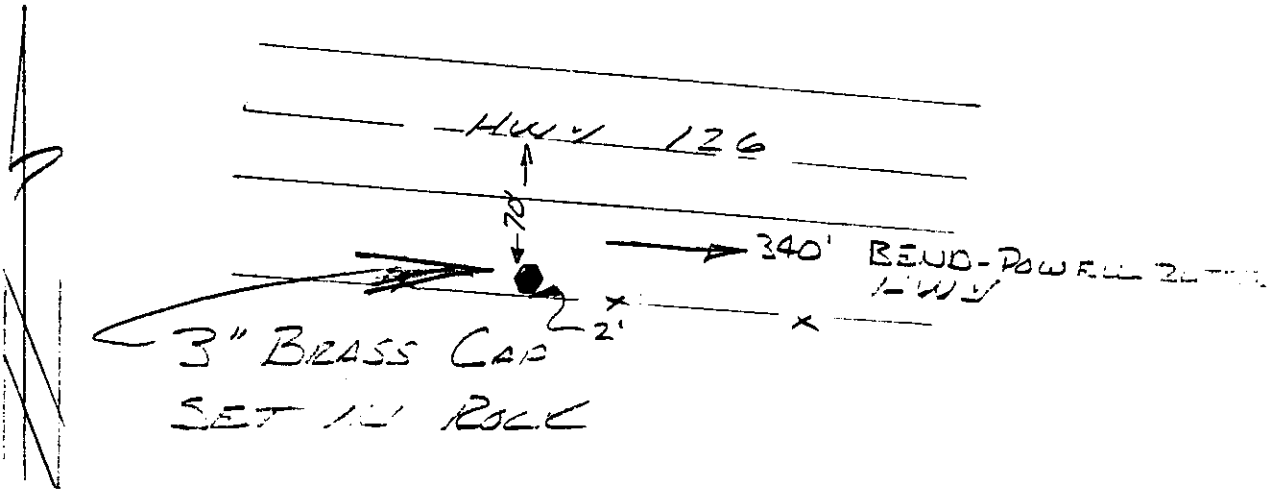
GEODETIC AND MAPPING COORDINATES

<u>MARK: Q-336</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°30'46.326826"	ONE SIGMA ERROR
Longitude:	121°06'22.129216"	
Northing:	551618.1074	0.012
Easting:	3346229.3496	0.012
Convergence:	+ 0°07'27.1924"	
Scale Factor:	1.000162440246	
Ellipsoid Height:	2869.904	0.021
Orthometric Height:	2934.5702	FIXED
Geoid Height:	-64.6662	

CONTROL MARK DATA

NAME OF MARK: Q-463 COUNTY: CROOK
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1936 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 15 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

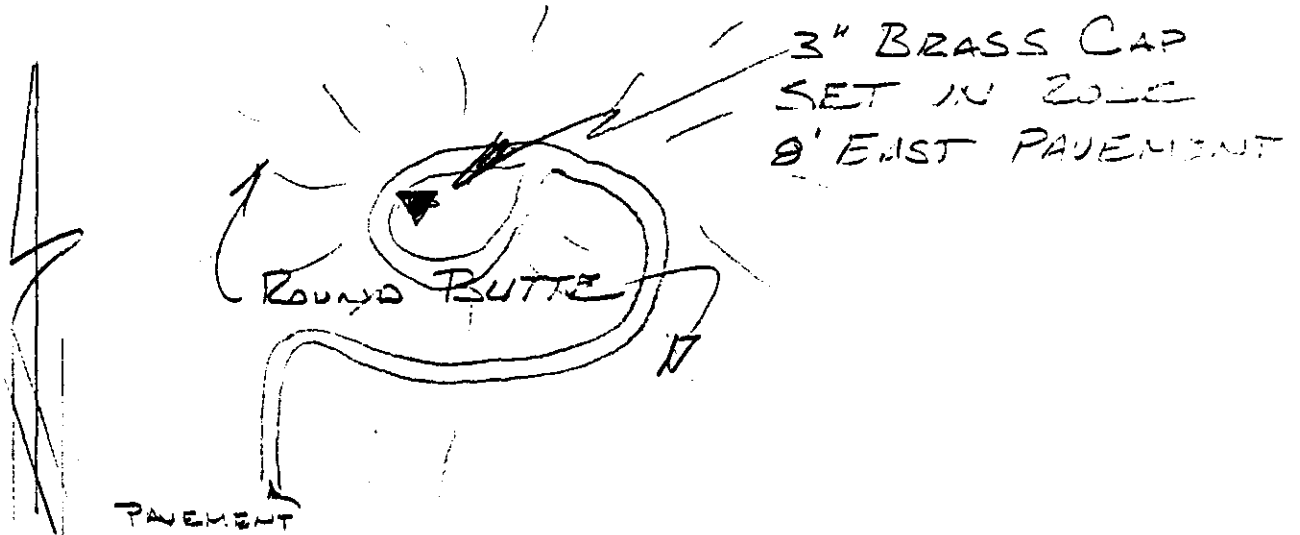
GEODETTIC AND MAPPING COORDINATES

<u>MARK: Q-463</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°14'53.908563"	ONE SIGMA ERROR
Longitude:	121°02'58.126861"	
Northing:	455190.0634	0.010
Easting:	3361289.6948	0.009
Convergence:	+ 0°09'47.4349"	
Scale Factor:	1.000164289438	
Ellipsoid Height:	3003.7224	0.014
Orthometric Height:	3068.0906	FIXED
Geoid Height:	-64.3682	

CONTROL MARK DATA

NAME OF MARK: ROUND COUNTY: JEFFERSON
MARK SET BY: U.S. C. & G.S. STATE: OREGON
DATE OF MARK: 1946 COUNTRY: U.S.A.
LOCATION: SECTION 24 TOWNSHIP 11 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

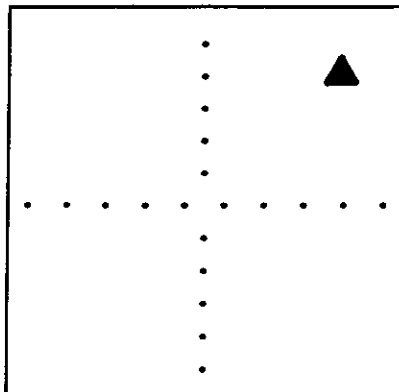
MARK: <u>ROUND</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°36'38.000270"	ONE SIGMA ERROR
Longitude:	121°14'19.414910"	
Northing:	587191.3724	FIXED
Easting:	3311618.8609	FIXED
Convergence:	+ 0°01'52.7764"	
Scale Factor:	1.000160154140	
Ellipsoid Height:	3205.3855	0.021
Orthometric Height:	3272.0385	0.105
Geoid Height:	-66.653	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

NAME: STATE HWY DEPT 'PI'
GIS # 0061
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 19 S.- R. 14 E., SEC.10

LATITUDE: 43° 56' 39.13776" N
LONGITUDE: 121° 01' 44.79138" W

----- EC CARTESIAN -----
X: -2371468.099 METERS
Y: -3942247.622 METERS
Z: +4404383.677 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1086.090 METERS
NGVD 29 : 1105.340 METERS
NAVD 88 : 1106.517 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 253138.424±.005 METERS
EAST: 1457523.319±.004 METERS

SCALE FACTOR: 0.999986299
CONVERGENCE: - 0° 21' 43.16 "

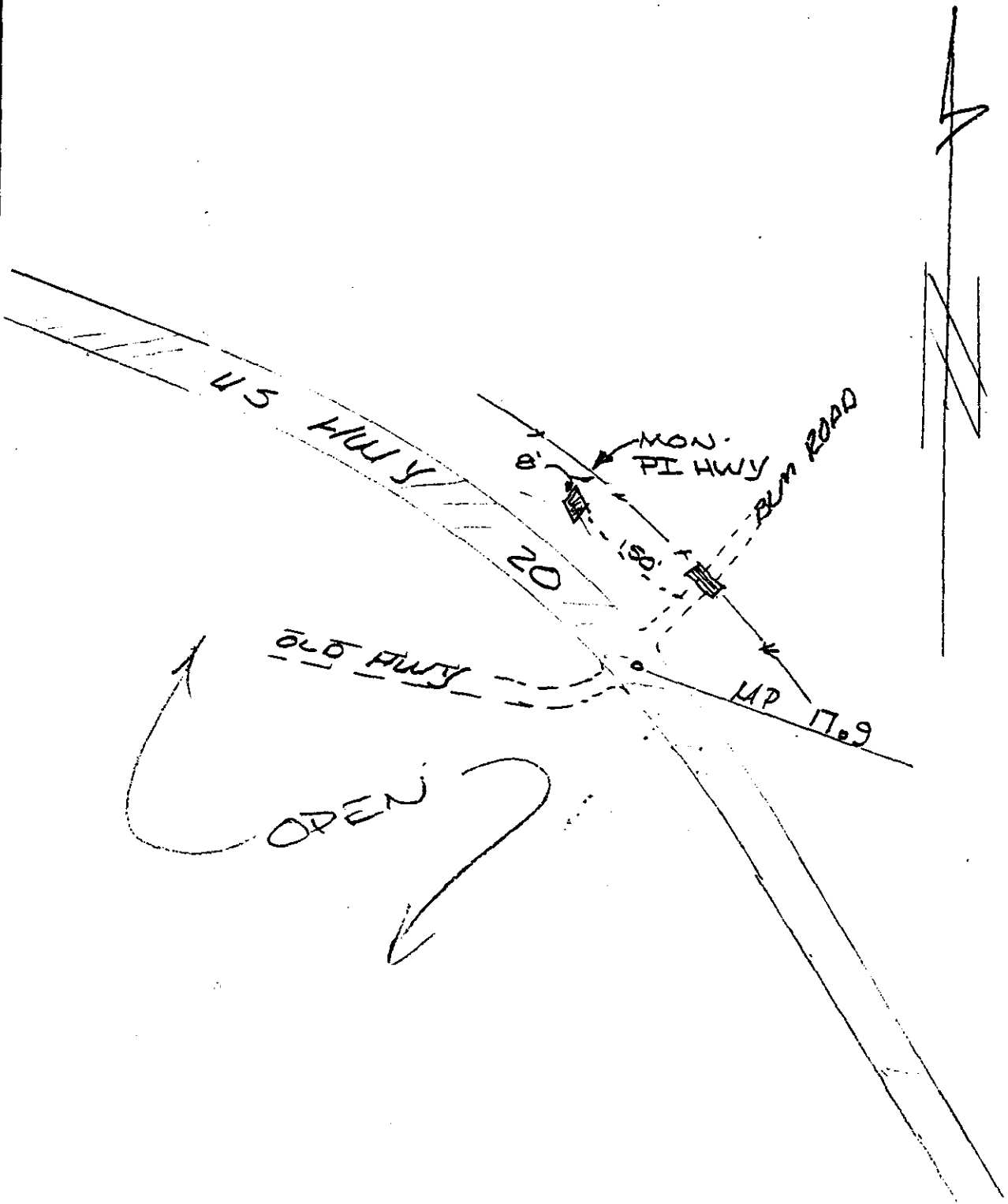
The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - PUNCH MARK ONLY
AGENCY INSCRIPTION - STATE HWY DEPT OREGON
THE STATION IS LOCATED ABOUT 13.5 MILES SOUTHEASTERLY OF BEND.

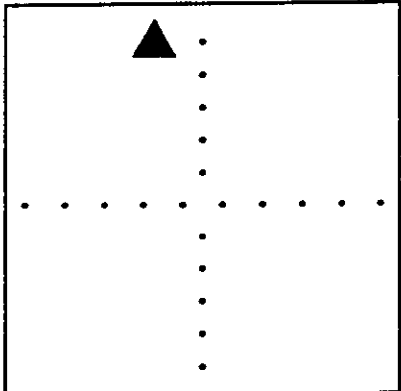
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 17.1 MI. TO A SIDE ROAD ON THE LEFT, TURN LEFT AND PROCEED 70 FEET MORE OR LESS TO A CATTLEGUARD IN FENCE LINE, THE STATION IS ON THE LEFT 150 FEET, BEING THE CENTERLINE POINT OF INTERSECTION OF HWY 20.

THE STATION MARK IS A 1 1/2 IN. ALUM. CAP ON A IRON RON IN A MASS OF CONCRETE.
10.5 FEET SOUTHERLY OF A WIRE FENCE
XX FEET NORTHEAST FROM THE CENTERLINE OF HWY 20.
2 FEET SOUTHWEST OF A WITNES POST

Location and reference sketch:
Name: STATE HWY DEPT. P.I.
GIS #: 61



DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION

<p>NAME: STEVENS GIS # NONE ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p>STATION LOCATION</p>  <p>T. 18 S.- R. 12 E., SEC.11</p>	<p>LATITUDE: 44° 02' 12.88309" N LONGITUDE: 121° 15' 27.11712" W</p> <p>----- EC CARTESIAN ----- X: -2383461.676 METERS Y: -3926659.215 METERS Z: +4411812.060 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1109.274 METERS NGVD 29 : 1128.816 METERS NAVD 88 : 1129.980 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 263579.713±.003 METERS EAST: 1439279.126±.003 METERS</p> <p>SCALE FACTOR: 1.000009591 CONVERGENCE: - 0° 31' 05.75 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - STEVENS 1978
AGENCY INSCRIPTION - DESCHUTES COUNTY CONTROL SURVEY
THE STATION IS LOCATED ABOUT 2.6 MILES SOUTHEAST OF BEND

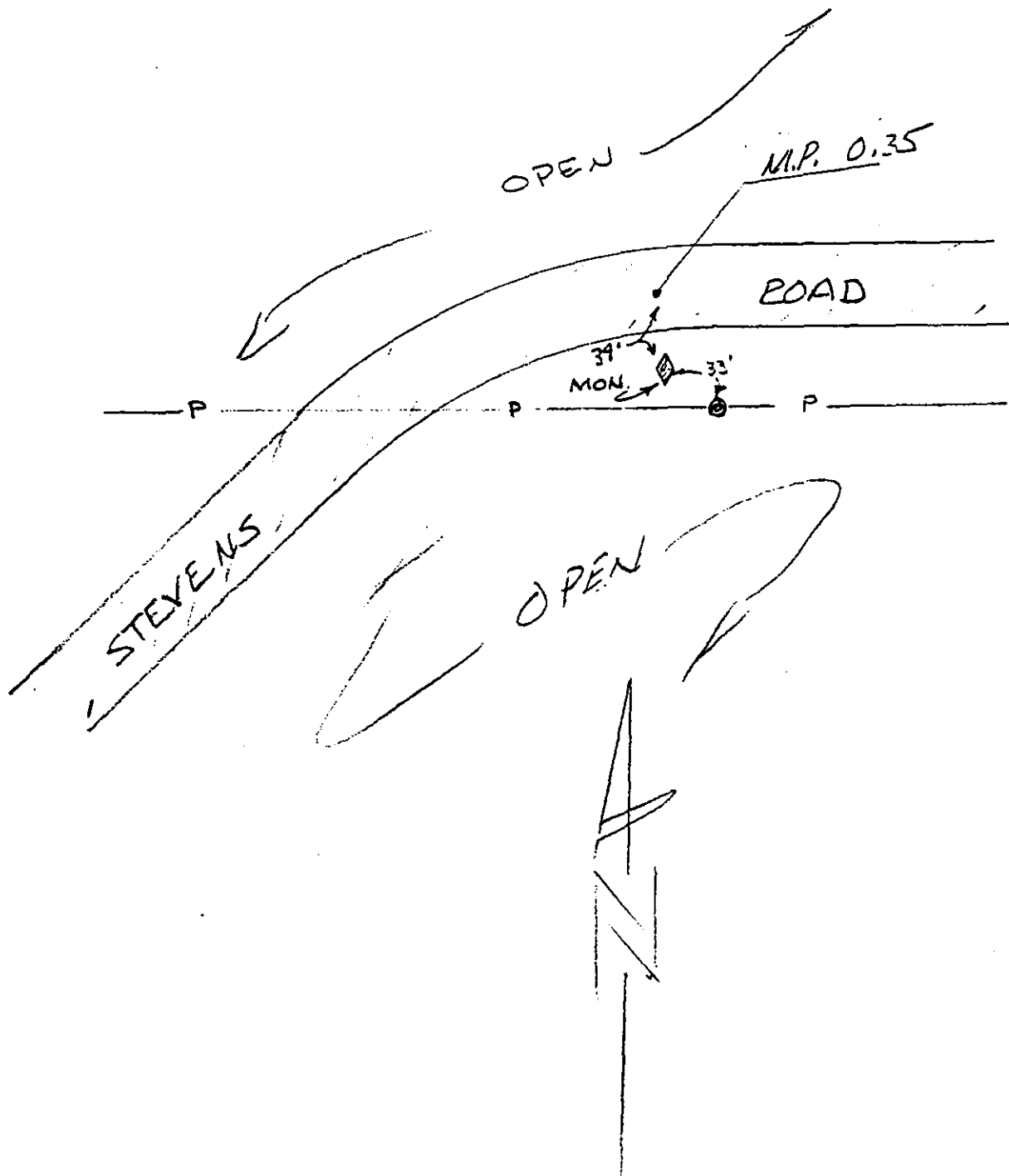
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI., TURN RIGHT ON SE 27TH STREET & PROCEED SOUTH FOR 1.35 MI., TURN LEFT AT STEVENS ROAD AND PROCEED FOR 0.3 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK GROUTED IN BEDROCK AT GROUND LEVEL.
27.34 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT OF STEVENS RD.
39.6 FEET WESTERLY OF A POWER POLE.
9.0 FEET SOUTH OF A WITNES POST.

Location and reference sketch:

Name: STEVENS 1978

GIS #: N/A



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

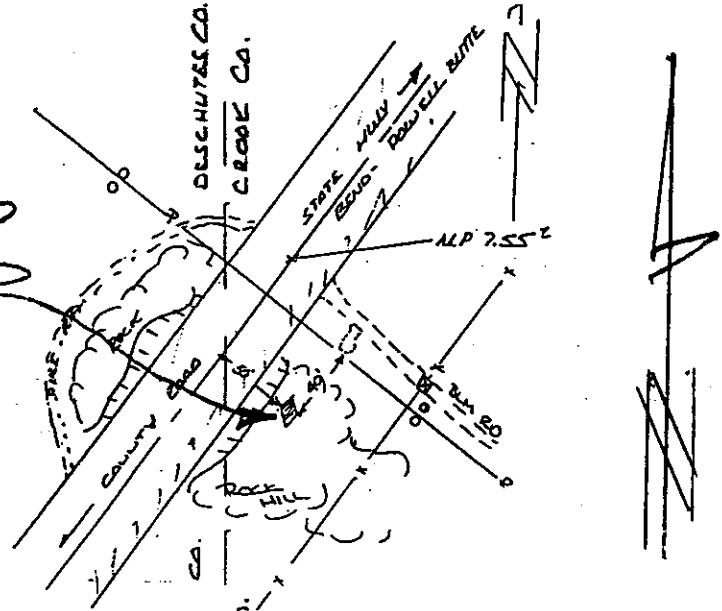
(503) 383-4395

CONTROL MARK DATA

NAME OF MARK: T 463 1936 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1936 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 16 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 5

MARK SKETCH:

3 1/2" BRASS CAP
SET IN ROCK



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994

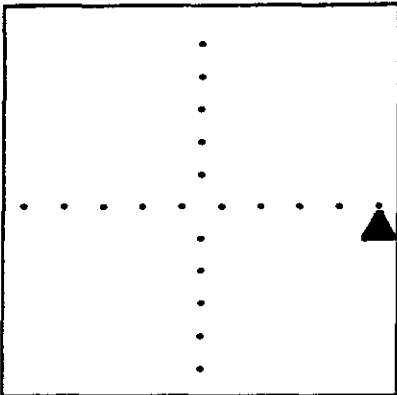
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: T 463 1936</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°10'17.524830"	ONE SIGMA ERROR
Longitude:	121°06'08.355789"	
Northing:	427162.5262	FIXED
Easting:	3347502.3923	FIXED
Convergence:	+ 0°07'34.0722"	
Scale Factor:	1.000162576699	
Ellipsoid Height:	3177.9265	FIXED
Orthometric Height:	3242.2277	FIXED
Geoid Height:	-64.3012	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: T 463 1936 GIS # 0047 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p> <hr/> <p>LATITUDE: 44° 10' 17.52483" N LONGITUDE: 121° 06' 08.35579" W</p> <p>----- EC CARTESIAN -----</p> <p>X: -2367384.984 METERS Y: -3924099.513 METERS Z: +4422457.257 METERS</p> <p>----- HEIGHT -----</p> <p>ELLIPSOIDAL: 968.632 METERS NGVD 29 : 988.231 METERS NAVD 88 : 989.356 METERS</p> <p>---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 278437.248±.004 METERS EAST: 1451827.620±.004 METERS</p> <p>SCALE FACTOR: 1.000048129 CONVERGENCE: - 0° 24' 43.47 "</p>
<p>STATION LOCATION</p>  <p>T. 16 S.- R. 13 E., SEC.24</p>	

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
 MARK IS STAMPED - T 463 1936
 AGENCY INSCRIPTION - U S C & G S
 THE STATION IS LOCATED ABOUT 12.5 MILES NORTHEASTERLY OF BEND.

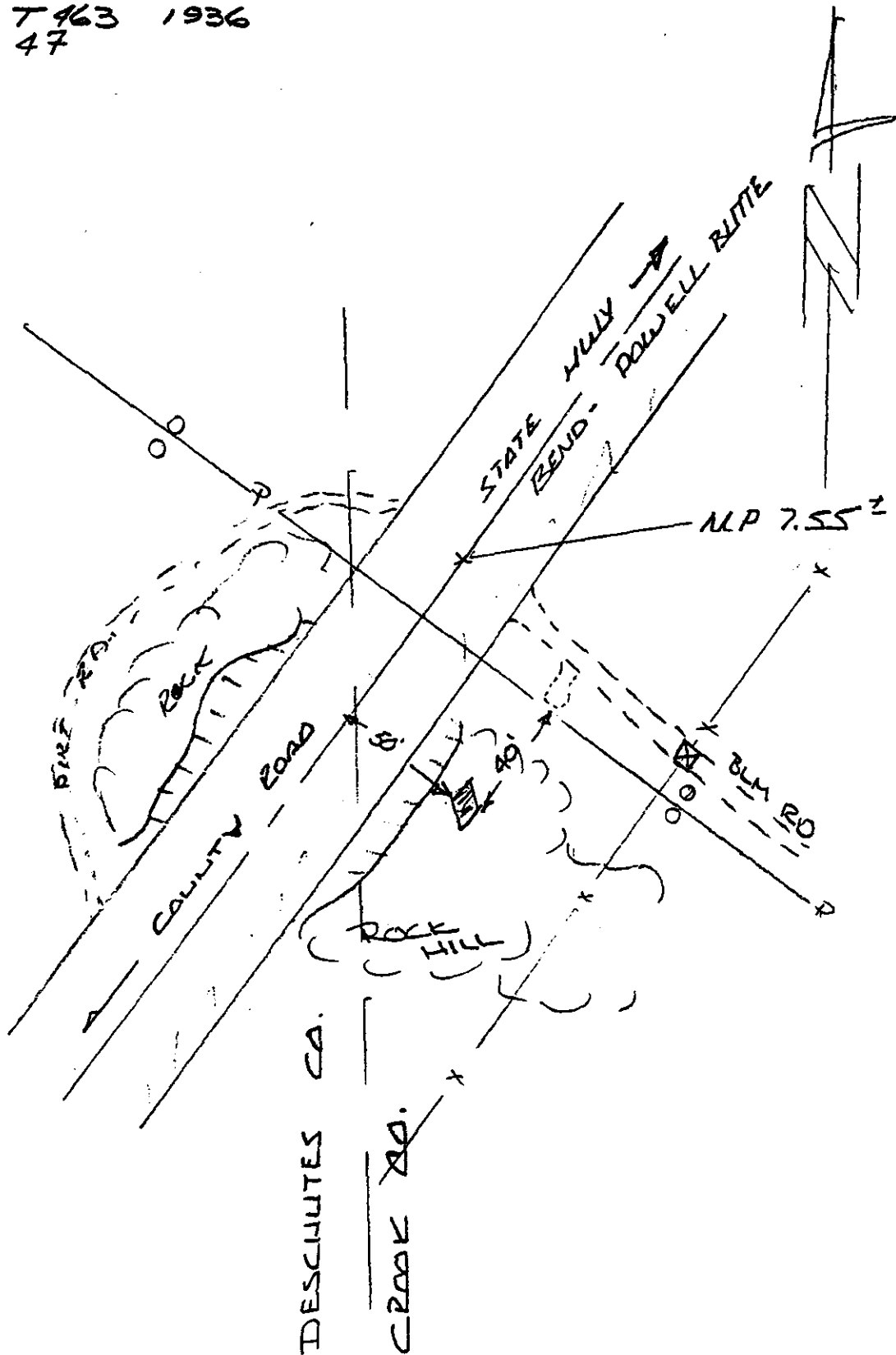
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.35 MI. TO THE JUNCTION WITH THE POWELL BUTTE COUNTY HWY., TURN LEFT AND PROCEED ON SAID HWY FOR 10.50 MILES TO THE STATION ON THE RIGHT, 8 FEET ABOVE ROADWAY IN ROCK OUTCROP.

THE STATION MARK IS A 3 1/2 IN. BRASS CAP GROUTED IN ROCK AT GROUND LEVEL.
 61 FEET EAST OF A WIRE FENCE
 20 FEET WEST OF THE ROCK CUT.
 1 FEET SOUTH OF A WITNES POST
 100 FEET SOUTH OF A BPA POWERLINE.

Location and reference sketch:

Name: 7463 1936

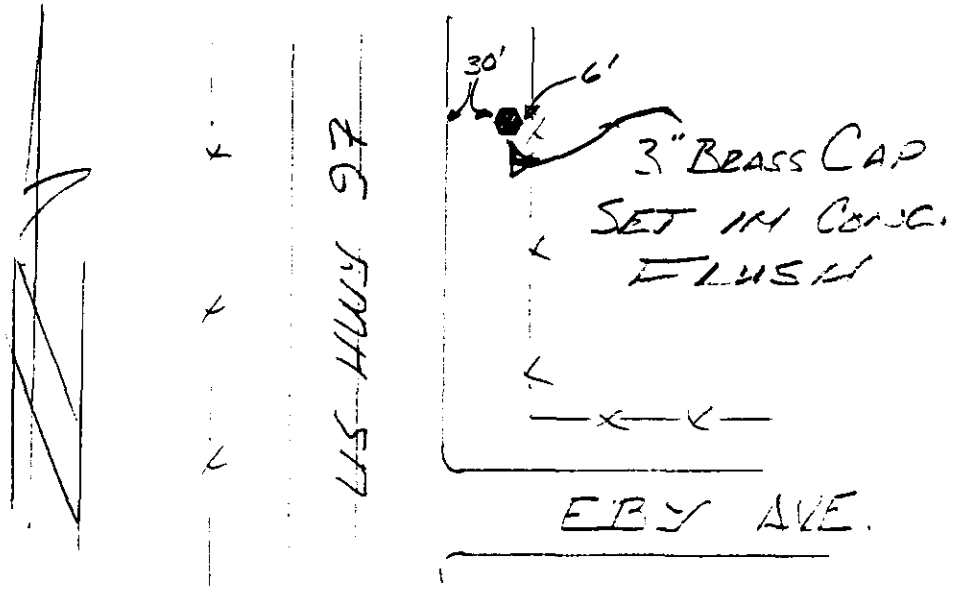
GIS #: 47



CONTROL MARK DATA

NAME OF MARK: V-456 COUNTY: DESCHUTES
 MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
 DATE OF MARK: 1954 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 14 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



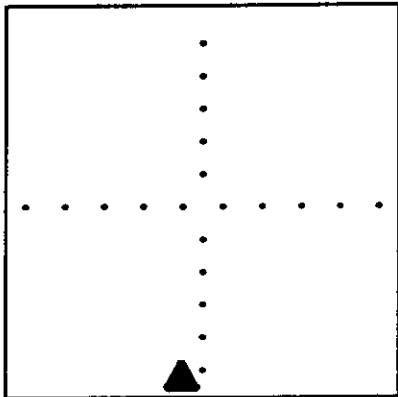
DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

<u>MARK: V-456</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°22'15.800387"	ONE SIGMA ERROR
Longitude:	121°10'41.683663"	
Northing:	499876.6478	0.009
Easting:	3327484.6835	0.009
Convergence:	+ 0°04'24.5576"	
Scale Factor:	1.000160862568	
Ellipsoid Height:	2758.299	0.012
Orthometric Height:	2823.435	FIXED
Geoid Height:	-65.136	

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: W-22 1920 GIS # 0057 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 19 S.- R. 14 E., SEC.33</p>	<p>LATITUDE: 43° 52' 28.62822" N LONGITUDE: 121° 02' 50.45852" W</p> <p>----- EC CARTESIAN ----- X: -2375569.728 METERS Y: -3946221.252 METERS Z: +4398962.983 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1303.212 METERS NGVD 29 : 1322.285 METERS NAVD 88 : 1323.495 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 245416.437±.006 METERS EAST: 1456008.438±.005 METERS</p> <p>SCALE FACTOR: 0.999970554 CONVERGENCE: - 0° 22' 28.08 "</p>

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - W 22 1920
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 7 MI. WESTERLY OF MILLICAN.

TO REACH THE STATION FROM MILLICAN, GO WESTERLY ON HWY 20 FOR 4.4 MI., TURN LEFT ON EVANS WELLS ROAD (FOREST ROAD 2015) AND PROCEED SOUTHWESTERLY FOR 3.7 MI. TO JUNCTION WITH FOREST ROAD 2016, KEEP RIGHT ON ROAD 2015 FOR 0.45 MI. TO BLM ROAD ON RIGHT, TURN RIGHT ON BLM RD. 6515 C AND PROCEED NORTH FOR 0.15 MI. TO INTERSECTION OF OLD BEND TO BURNS ROAD, TURN RIGHT AND PROCEED EAST 165 FEET TO THE STATION ON THE LEFT.

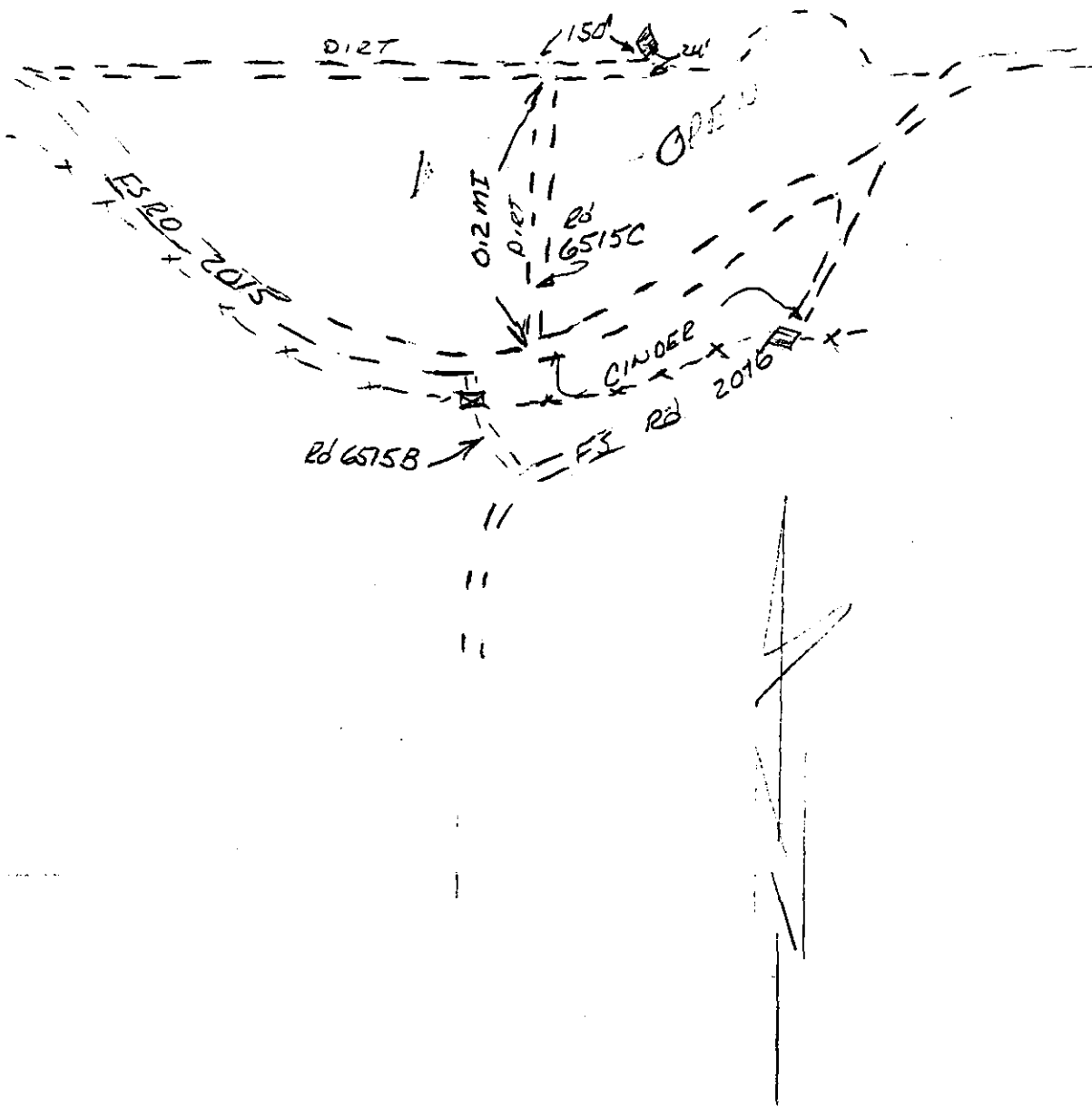
THE STATION MARK IS A 3 1/2 IN. BRASS CAP IN A CONCRETE POST 0.2 FEET ABOVE GROUND LEVEL.

1 FEET SOUTH OF A WITNES POST
15 FEET NORTH OF THE DIRT ROAD.

Location and reference sketch:

Name: W-22 1920

GIS #: 57



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

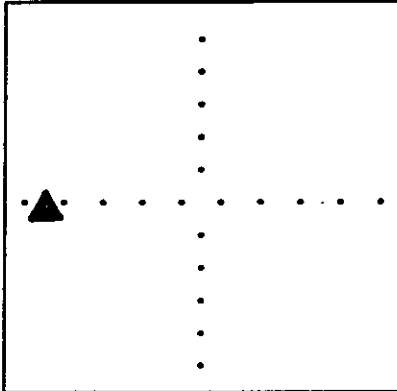
(503) 383-4395

DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION

NAME: X-359 1942
GIS # 0065
ORDER C-1st. (GPS)

HORIZONTAL DATUM: NAD 83 (1991)
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



T. 15 S.- R. 10 E., SEC.32

LATITUDE: 44° 13' 33.91028" N
LONGITUDE: 121° 34' 23.10842" W

----- EC CARTESIAN -----
X: -2397400.062 METERS
Y: -3901023.002 METERS
Z: +4426926.887 METERS

----- HEIGHT -----
ELLIPSOIDAL: 1145.395 METERS
NGVD 29 : 1165.202 METERS
NAVD 88 : 1166.383 METERS
---- SPC -- OREGON SOUTH ----
NORTH: 284875.253±.005 METERS
EAST: 1414256.129±.004 METERS

SCALE FACTOR: 1.000065339
CONVERGENCE: - 0° 44' 02.94 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:

MARK IS STAMPED - X 359 1942

AGENCY INSCRIPTION - USC & GS

THE STATION IS LOCATED ABOUT 4.5 MILES SOUTH OF SISTERS

TO REACH THE STATION FROM SISTERS START AT THE INTERSECTION OF ELM STREET AND US HWY 20 (CASCADE ST.), PROCEED SOUTH ON ELM ST. (AT CITY LIMITS ROAD IS NAMED THREE CREEKS ROAD AND FOREST RD 16) FOR 5.07 MILES TO THE STATION N THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDATD DISK IN A POST OF CONCTETE 0.4 FEET ABOVE GROUND LEVEL.
55 FEET NORHTWEST FROM THE ROAD CENTER LINE
1 FOOT EAST FROM A WITNES POST

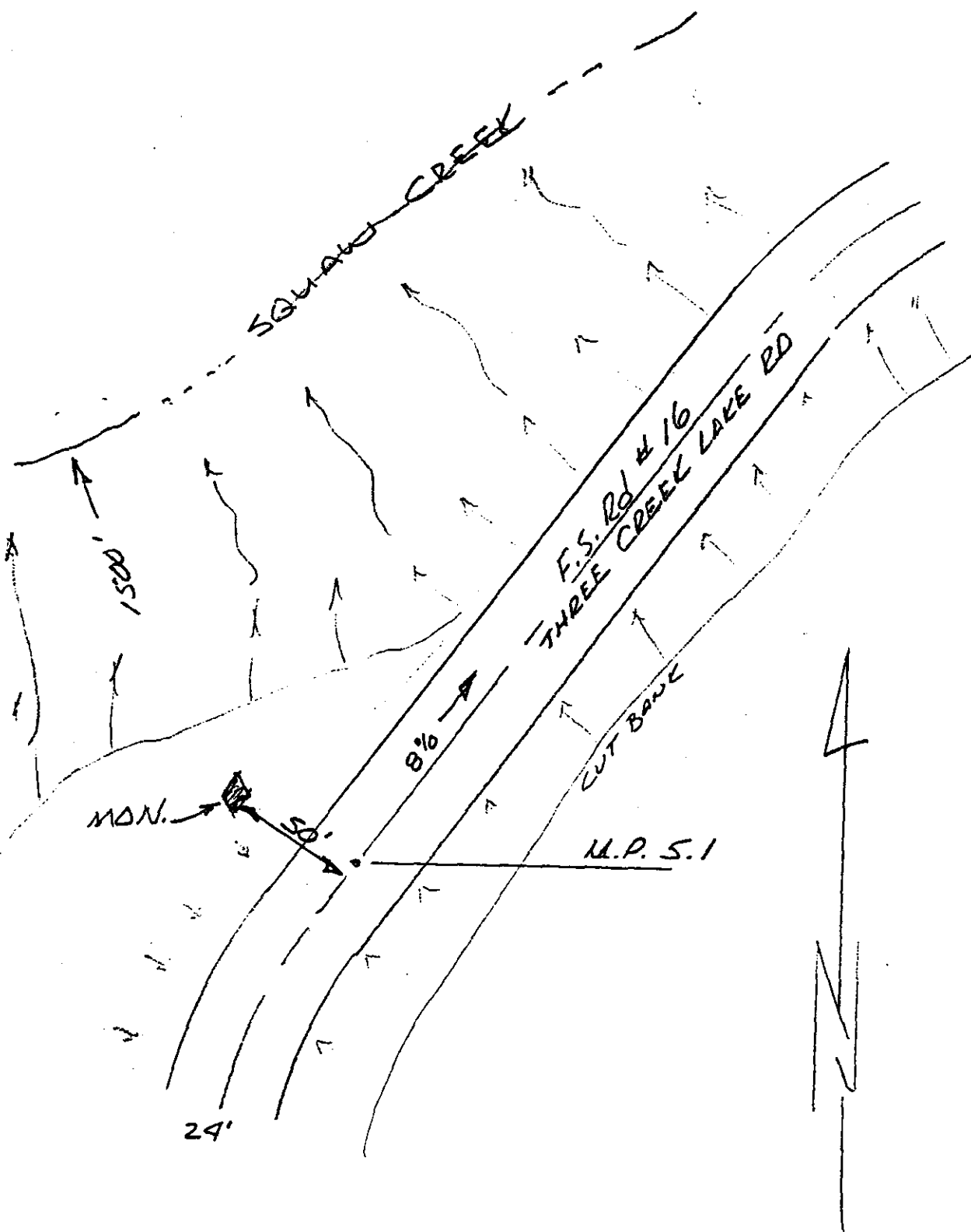
360 DEG. OF 20 DEG. MASK FOR GPS

DESCHUTES COUNTY SURVEYOR'S OFFICE
61150 S.E. 27th St.
Bend, Oregon. 97702
(503) 383-4395

Location and reference sketch:

Name: X359 1942

GIS #: 65



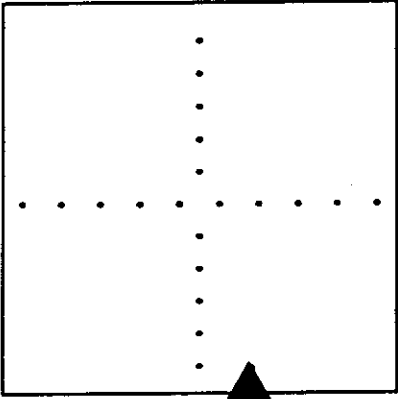
DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

Bend, Oregon. 97702

(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK
CONTROL STATION DESCRIPTION**

<p>NAME: Y 370 1942 GIS # 0049 ORDER C-1st. (GPS)</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 21 S.- R. 10 E., SEC.36</p>	<p>LATITUDE: 43° 42' 12.50821" N LONGITUDE: 121° 28' 37.47016" W</p> <p>----- EC CARTESIAN ----- X: -2411958.300 METERS Y: -3939495.500 METERS Z: +4385207.598 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 1266.443 METERS NGVD 29 : 1285.947 METERS NAVD 88 : 1287.166 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 226717.411±.006 METERS EAST: 1421249.944±.005 METERS</p> <p>SCALE FACTOR: 0.999938154 CONVERGENCE: - 0° 40' 06.47 "</p>

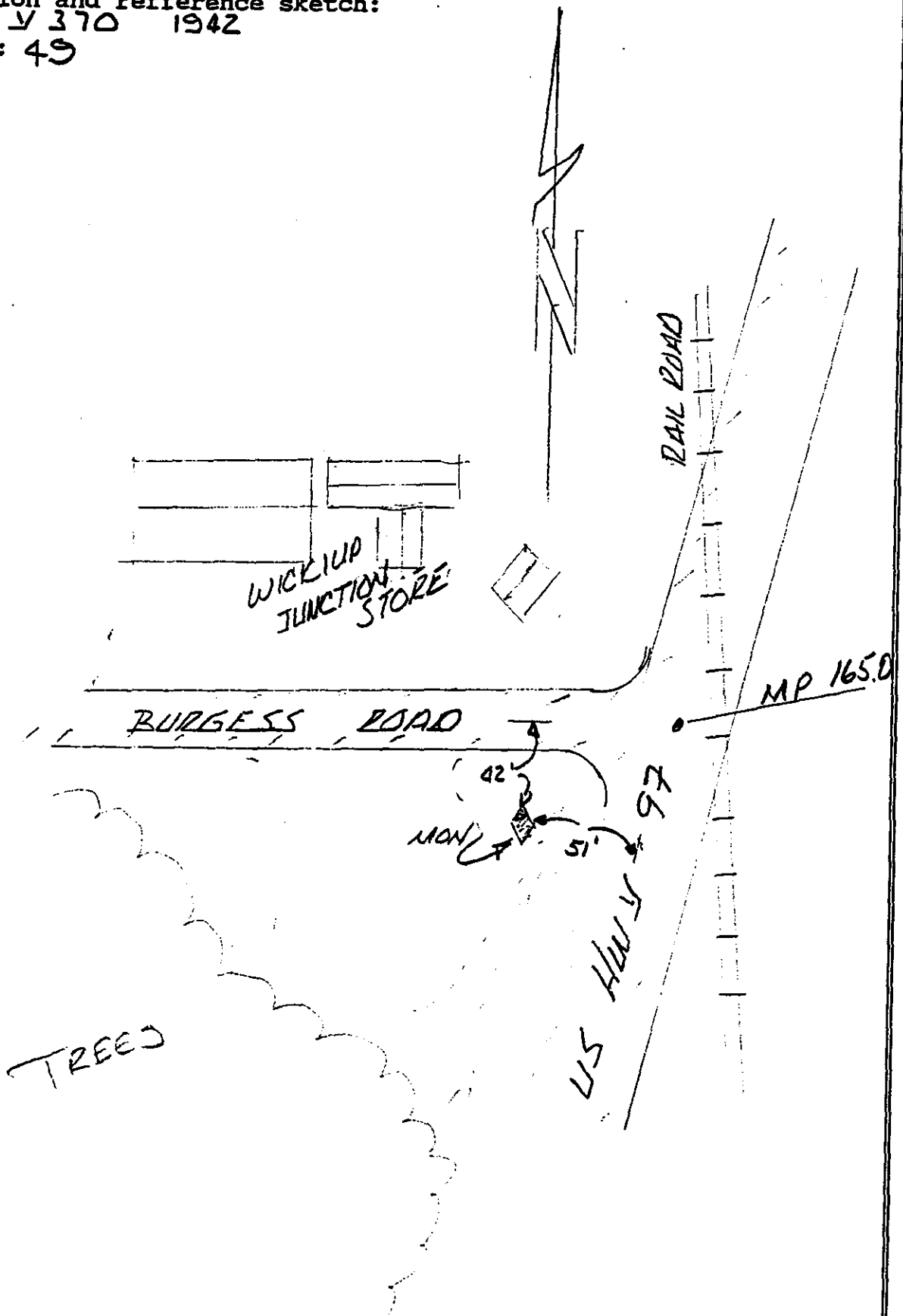
The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

SURFACE MARKER:
MARK IS STAMPED - Y 370 1942
AGENCY INSCRIPTION - USC & GS
THE STATION IS LOCATED ABOUT 3 MILES NORTHEAST OF LIPINE

TO REACH THE STATION FROM LAPINE, START AT THE INTERSECTION OF US HWY 97 AND FINLEY BUTTE ROAD (FOREST RD. 22) AND PROCEED NORTHERLY ON HWY 97 FOR 2.8 TO INTERSECTION WITH BURGESS COUNTY ROAD, TURN LEFT AND PROCEED 60 FEET TO THE STATION ON THE LEFT.

THE STATION MARK IS A STANDARD NGS DISK IN A 10 IN. X 10 IN. CONCRETE POST AT GROUND LEVEL.
1.0 FEET WESTERLY OF A WITNES POST
36 FEET WESTERLY OF THE WEST EDGE OF HWY 97
29 FEET SOUTHERLY OF SOUTH EDGE OF BURGESS ROAD

Location and reference sketch:
Name: V 370 1942
GIS #: 49



DESCHUTES COUNTY SURVEYOR'S OFFICE

61150 S.E. 27th. St.

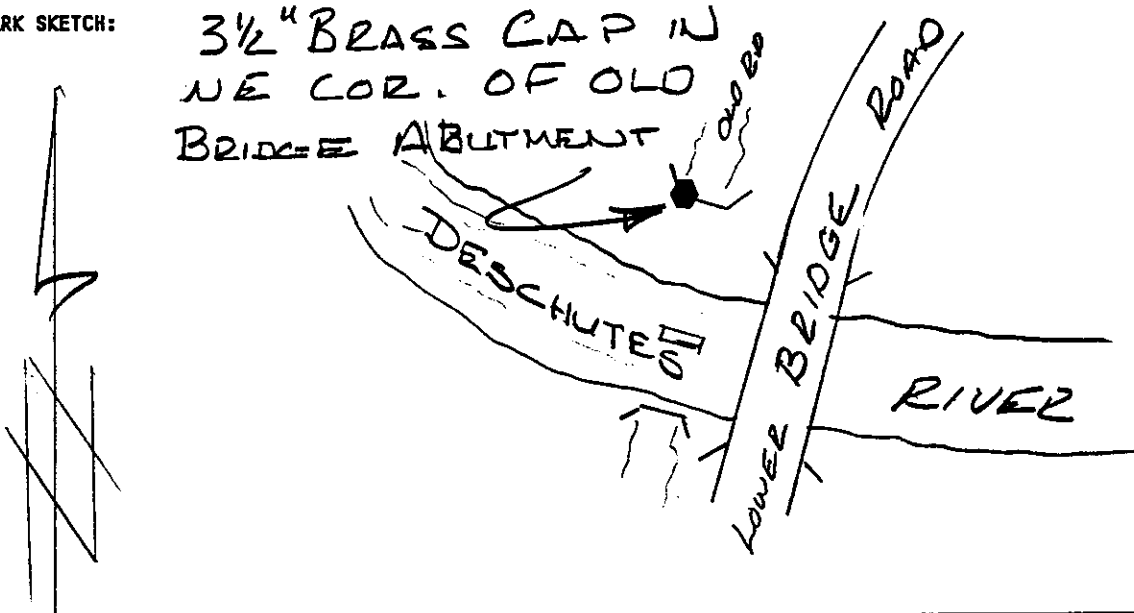
Bend, Oregon. 97702

(503) 325-1225

CONTROL MARK DATA

NAME OF MARK: Y-419 COUNTY: DESCHUTES
 MARK SET BY: U.S. C. & G.S. STATE: OREGON
 DATE OF MARK: 1946 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 14 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

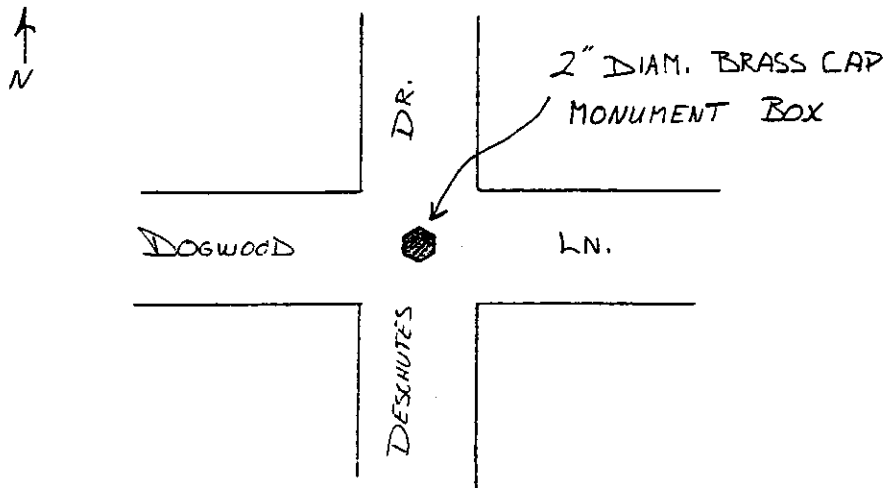
GEODETIC AND MAPPING COORDINATES

<u>MARK: Y-419</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°21'36.025234"	ONE SIGMA ERROR
Longitude:	121°17'40.562469"	
Northing:	495830.6286	0.011
Easting:	3297052.5826	0.011
Convergence:	- 0°00'28.3598"	
Scale Factor:	1.000160009920	
Ellipsoid Height:	2468.4538	0.016
Orthometric Height:	2534.4521	FIXED
Geoid Height:	-65.9983	

MARK DATA SHEET

NAME OF MARK: 10132100 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 21 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY NFF 930226

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

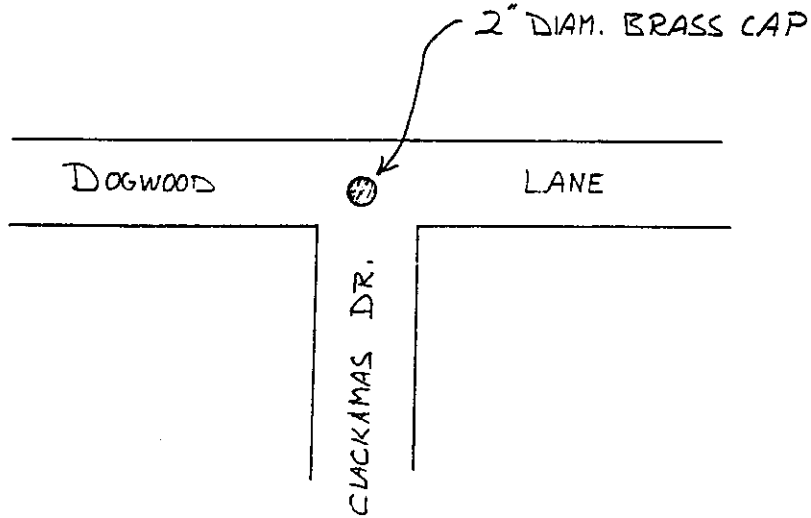
GEODETIC AND MAPPING COORDINATES

MARK: 10132100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44° 40' 44.077255"	Northing: 612125.853	0.029
Longitude: 121° 11' 38.705821"	Easting: 3323219.411	0.025
Convergence: +0° 03' 45.9126"	Ell. Height: 2304.11	0.082
Scale Factor: 1.000160615578	Ortho. Height: 2371.04	0.098
Combined Factor: 1.00005050	Geoid Height: -66.93	

MARK DATA SHEET

NAME OF MARK: 10132104 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 21 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY NF# 930227

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

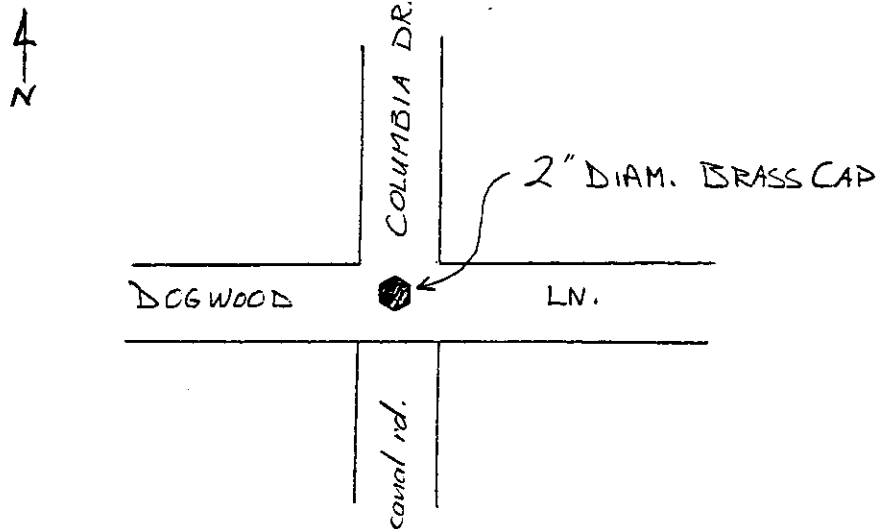
GEODETIC AND MAPPING COORDINATES

MARK: 10132104	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°40'44.215720"	Northing: 612142.911	0.025
Longitude: 121°11'02.440237"	Easting: 3325840.249	0.025
Convergence: +0°04'11.4124"	Ell. Height: 2313.80	0.076
Scale Factor: 1.000160762384	Ortho. Height: 2380.67	0.090
Combined Factor: 1.00005018	Geoid Height: -66.87	

MARK DATA SHEET

NAME OF MARK: 10132200 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MPF 930228

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

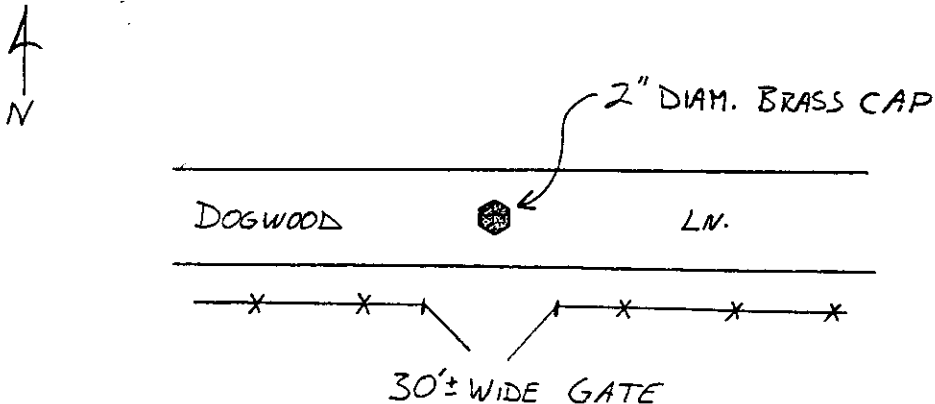
GEODETIC AND MAPPING COORDINATES

MARK: 10132200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°40'44.350539"	Northing: 612159.915	0.012
Longitude: 121°10'26.254517"	Easting: 3328455.313	0.011
Convergence: +0°04'36.8560"	Ell. Height: 2327.33	0.042
Scale Factor: 1.000160924501	Ortho. Height: 2394.13	0.060
Combined Factor: 1.00004970	Geoid Height: -66.81	

MARK DATA SHEET

NAME OF MARK: 10132300 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 23 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MP# 932222

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

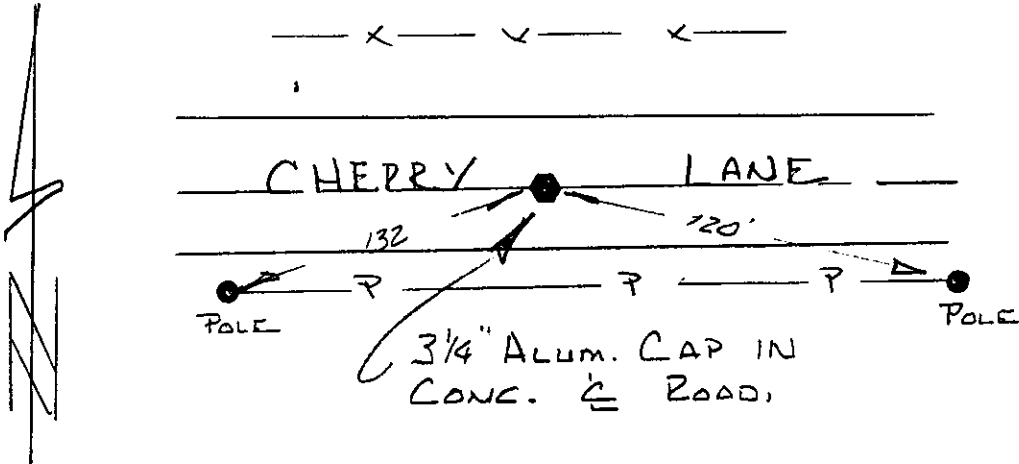
GEODETIC AND MAPPING COORDINATES

MARK: 10132300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°40'44.581416"	Northing: 612191.078	0.012
Longitude: 121°09'12.909065"	Easting: 3333755.826	0.009
Convergence: +0°05'28.4282"	Ell. Height: 2354.91	0.031
Scale Factor: 1.000161301003	Ortho. Height: 2421.59	0.046
Combined Factor: 1.00004875	Geoid Height: -66.68	

CONTROL MARK DATA

NAME OF MARK: 10132500 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 10 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 900166

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

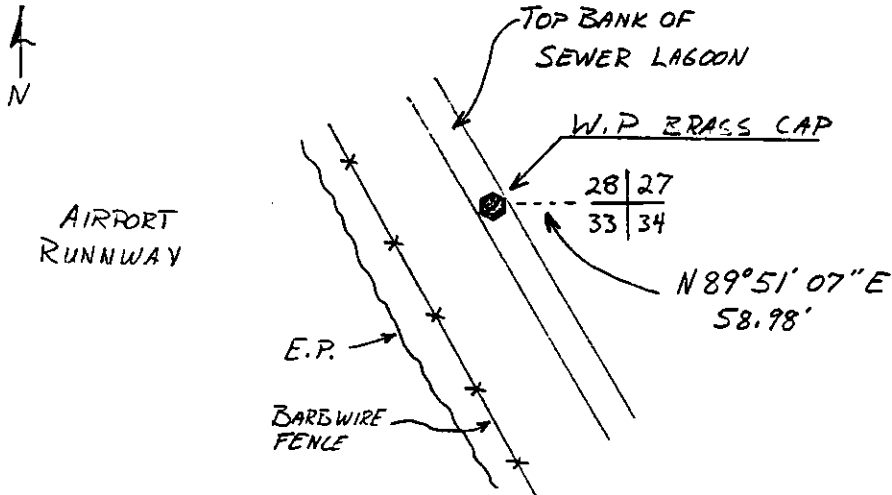
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 10132500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°39'52.644522"	ONE SIGMA ERROR
Longitude:	121°07'59.753958"	
Northing:	606939.4833	0.023
Easting:	3339052.3016	0.023
Convergence:	+ 0°06'19.7695"	
Scale Factor:	1.000161741308	
Ellipsoid Height:	2403.5417	0.033
Orthometric Height:	2469.9532	0.049
Geoid Height:	-66.4115	

MARK DATA SHEET

NAME OF MARK: 10132700 WP **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MP# 930233

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

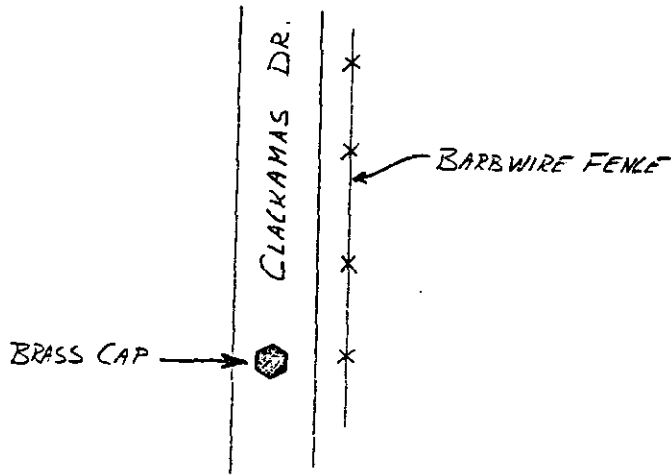
GEODETIC AND MAPPING COORDINATES

MARK: 10132700 WP	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'51.813673"	Northing: 606838.458	0.010
Longitude: 121°10'26.401919"	Easting: 3328451.799	0.009
Convergence: +0°04'36.6811"	Ell. Height: 2360.75	0.034
Scale Factor: 1.000160924276	Ortho. Height: 2427.45	0.050
Combined Factor: 1.00004810	Geoid Height: -66.70	

MARK DATA SHEET

NAME OF MARK: 10132804 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MFF 930232

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

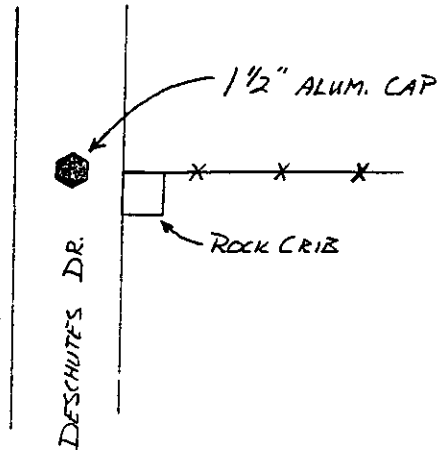
MARK: 10132804	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'51.732158"	Northing: 606826.919	0.022
Longitude: 121°11'01.851645"	Easting: 3325889.275	0.015
Convergence: +0°04'11.7614"	Ell. Height: 2347.78	0.056
Scale Factor: 1.000160765283	Ortho. Height: 2414.55	0.070
Combined Factor: 1.00004856	Geoid Height: -66.77	

MARK DATA SHEET

NAME OF MARK: 10132840 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MPF 930229

MARK SKETCH:

A
N



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

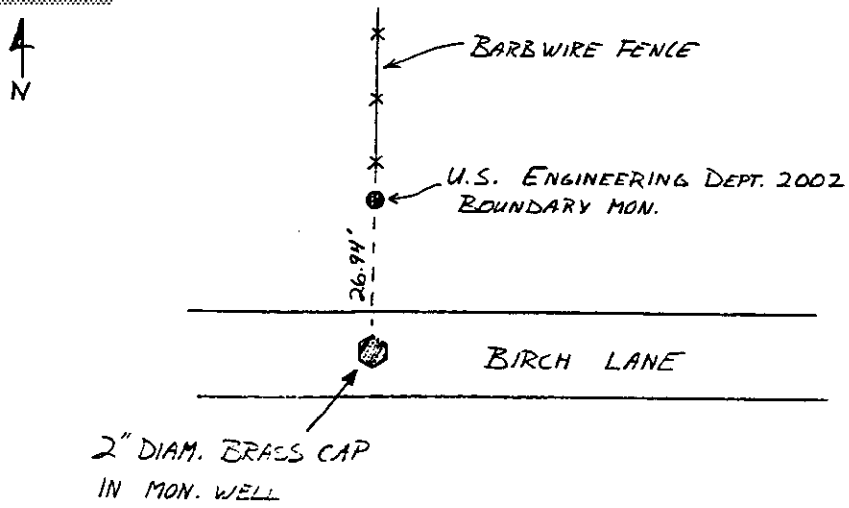
GEODETIC AND MAPPING COORDINATES

MARK: 10132840	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°40'18.028229"	Northing: 609487.351	0.028
Longitude: 121°11'38.741060"	Easting: 3323219.754	0.022
Convergence: +0°03'45.8590"	Ell. Height: 2324.46	0.074
Scale Factor: 1.000160615597	Ortho. Height: 2391.34	0.090
Combined Factor: 1.00004952	Geoid Height: -66.88	

MARK DATA SHEET

NAME OF MARK:	10133404	COUNTY:	JEFFERSON
MARK SET BY:	LS 2208 GARY DEJARNATT	STATE:	OREGON
DATE OF MARK:	1991	COUNTRY:	U.S.A.
LOCATION:	SECTION 34	TOWNSHIP 10 S	RANGE 13 E
REFERENCE:	SURVEY NO#	912679	

MARK SKETCH:



DATA COMPUTED BY:	W.C. KAUFFMAN LAND SURVEYOR, LS 1031	DATE:	1995
METHOD-EQUIPMENT:	GPS-TRIMBLE 4000SSE GEODETIC	ADJUSTED WITH:	TRIMNET

HORIZONTAL DATUM:	NAD 83 (91)	VERTICAL DATUM:	NAVD 29
PROJECTION:	TRANSVERSE MERCATOR	ZONE:	CENTRAL OREGON LCS
CENTRAL MERIDIAN:	W 121° 17' 00.00"	ORIGIN NORTHING:	0.00F
LATITUDE OF ORIGIN:	N 43° 00' 00.00"	ORIGIN EASTING:	3,300,000.00F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.0001600

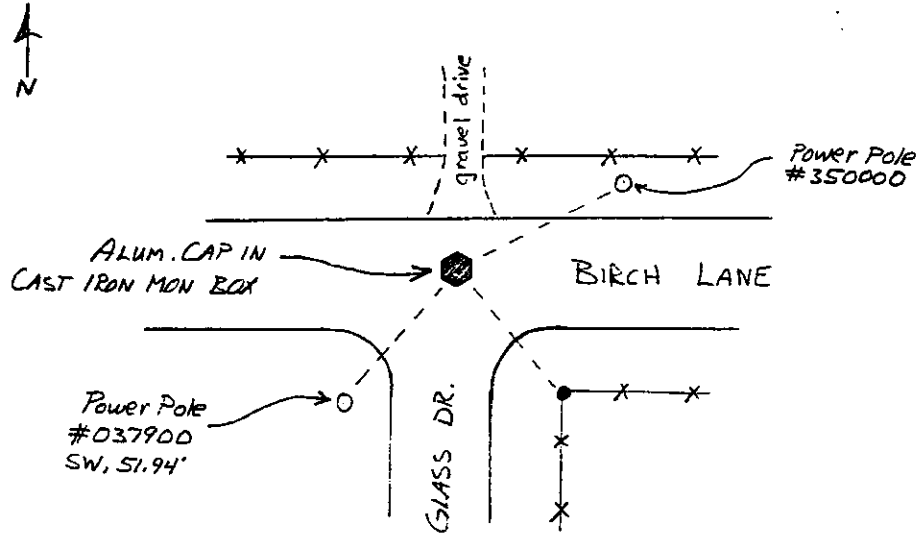
GEODETIC AND MAPPING COORDINATES

MARK:	10133404	HORIZONTAL ORDER:	FIRST		ONE SIGMA ERROR
Latitude:	44°39'00.033614"	Northing:	601597.451		0.021
Longitude:	121°09'49.318712"	Easting:	3331140.109		0.020
Convergence:	+0°05'02.6719"	Ell. Height:	2371.86		0.059
Scale Factor:	1.000161107194	Ortho. Height:	2438.38		0.065
Combined Factor:	1.00004775	Geoid Height:	-66.52		

MARK DATA SHEET

NAME OF MARK: 10133500 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 35 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MFF 883316

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

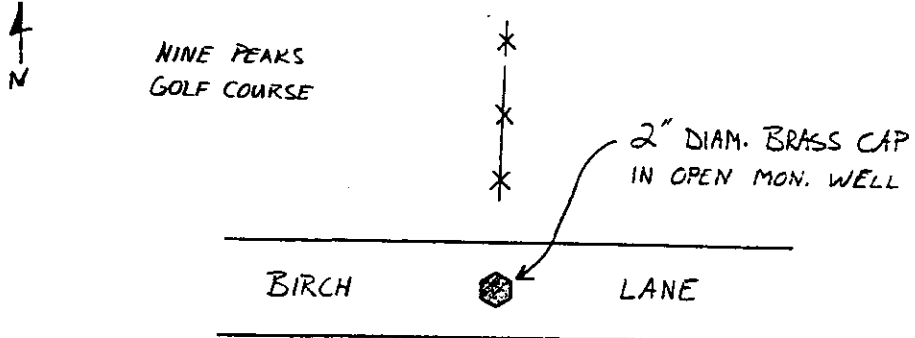
GEODETIC AND MAPPING COORDINATES

MARK: 10133500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.065770"	Northing: 601604.703	0.025
Longitude: 121°09'13.183798"	Easting: 3333752.813	0.021
Convergence: +0°05'28.0667"	Ell. Height: 2972.38	0.071
Scale Factor: 1.000161300779	Ortho. Height: 2438.83	0.075
Combined Factor: 1.00004792	Geoid Height: -66.45	

MARK DATA SHEET

NAME OF MARK: 10133504 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 35 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MP# 932381

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

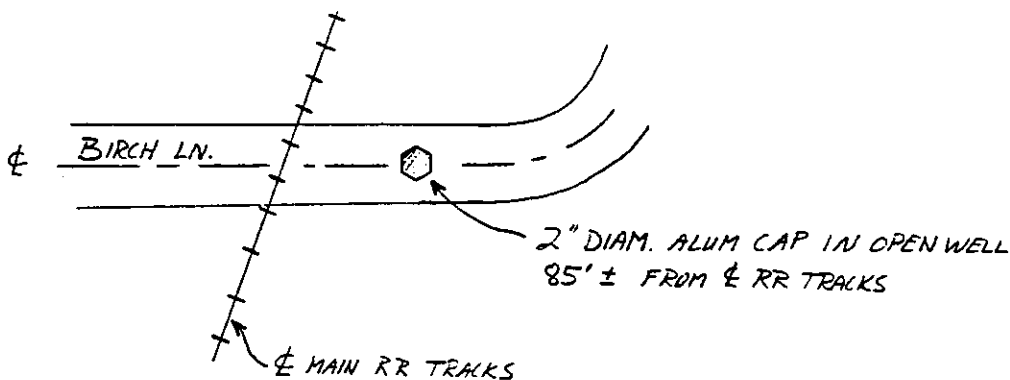
GEODETIC AND MAPPING COORDINATES

MARK: 10133504	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.105691"	Northing: 601613.123	0.024
Longitude: 121°08'36.564896"	Easting: 3336400.510	0.019
Convergence: +0°05'53.8017"	Ell. Height: 2377.67	0.063
Scale Factor: 1.000161512860	Ortho. Height: 2444.03	0.066
Combined Factor: 1.00004788	Geoid Height: -66.37	

MARK DATA SHEET

NAME OF MARK: 10133600 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 36 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MP# 933575

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

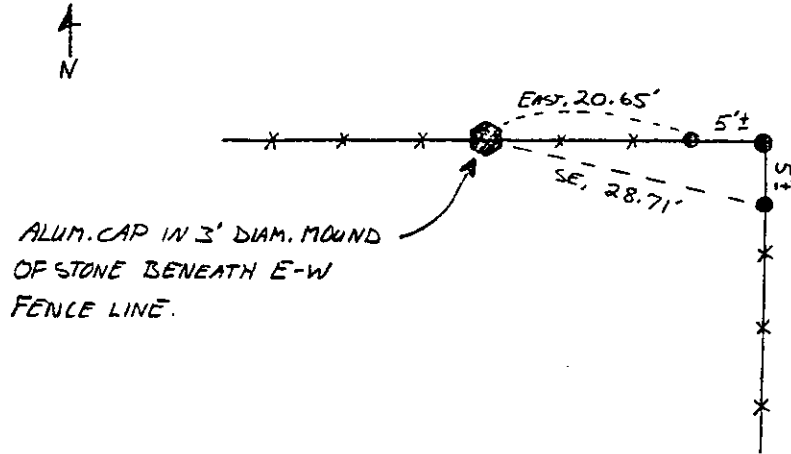
GEODETIC AND MAPPING COORDINATES

MARK: 10133600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.144193"	Northing: 601621.737	0.023
Longitude: 121°07'59.891423"	Easting: 3339052.152	0.017
Convergence: +0°06'19.5751"	Ell. Height: 2393.90	0.054
Scale Factor: 1.000161741301	Ortho. Height: 2460.18	0.056
Combined Factor: 1.00004733	Geoid Height: -66.28	

MARK DATA SHEET

NAME OF MARK: 10133604 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 36 TOWNSHIP 10 S RANGE 13 E
REFERENCE: SURVEY MP# 883340

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

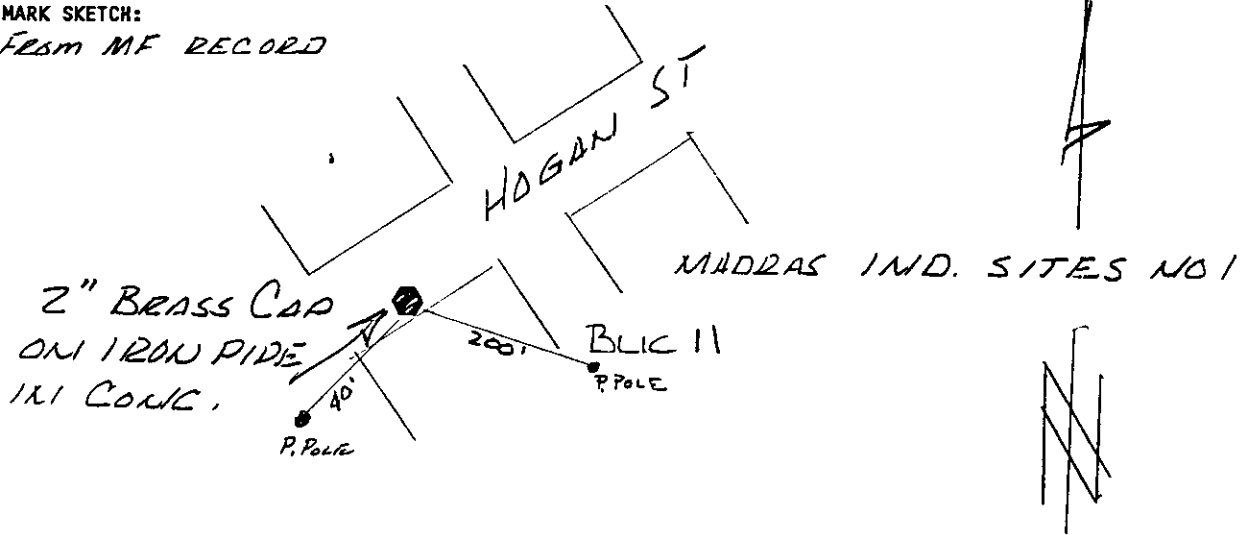
MARK: 10133604	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.183056"	Northing: 601630.712	0.029
Longitude: 121°07'23.261509"	Easting: 3341700.643	0.026
Convergence: +0°06'45.3178"	Ell. Height: 2274.22	0.068
Scale Factor: 1.000161985498	Ortho. Height: 2340.43	0.071
Combined Factor: 1.00005329	Geoid Height: -66.20	

CONTROL MARK DATA

NAME OF MARK: 10133640 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 10 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 911161

MARK SKETCH:

From MF RECORD



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

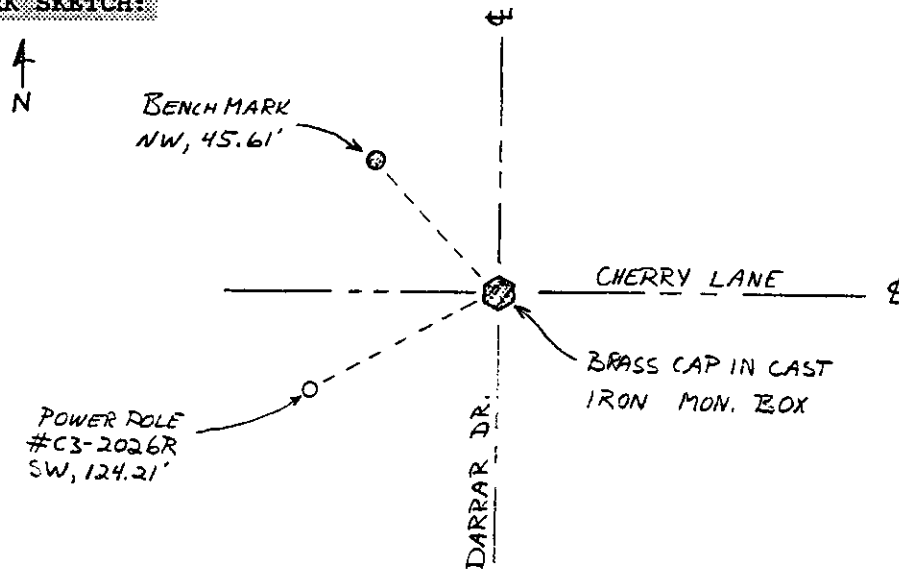
MARK: 10133640 HORIZONTAL ORDER: FIRST

Latitude:	44°39'26.338497"	ONE SIGMA ERROR
Longitude:	121°07'59.665384"	
Northing:	604274.9711	0.021
Easting:	3339063.6106	0.021
Convergence:	+ 0°06'19.7827"	
Scale Factor:	1.000161742320	
Ellipsoid Height:	2404.0565	0.030
Orthometric Height:	2470.4063	0.047
Geoid Height:	-66.3499	

MARK DATA SHEET

NAME OF MARK: 10142800 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1982 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY MF# B61407

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

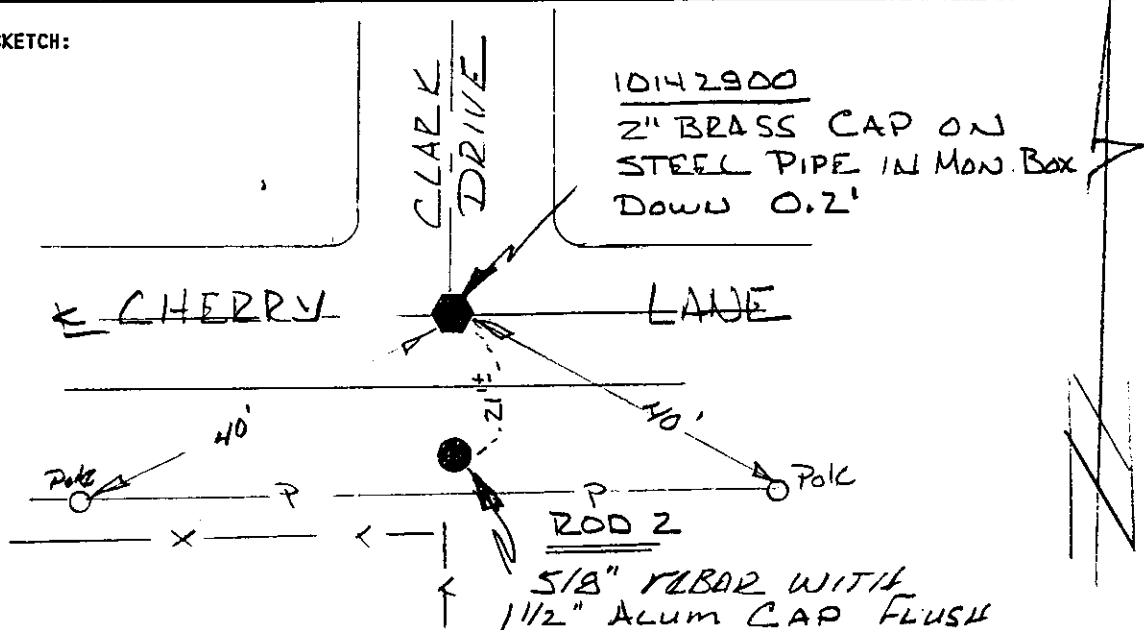
GEODETIC AND MAPPING COORDINATES

MARK: 10142800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'51.436835"	Northing: 606852.324	0.026
Longitude: 121°04'20.155856"	Easting: 3354926.519	0.019
Convergence: +0°08'54.1348"	Ell. Height: 2288.44	0.056
Scale Factor: 1.000163444665	Ortho. Height: 2354.29	0.063
Combined Factor: 1.00005407	Geoid Height: -65.85	

CONTROL MARK DATA

NAME OF MARK: 10142900 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 10 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 152091

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

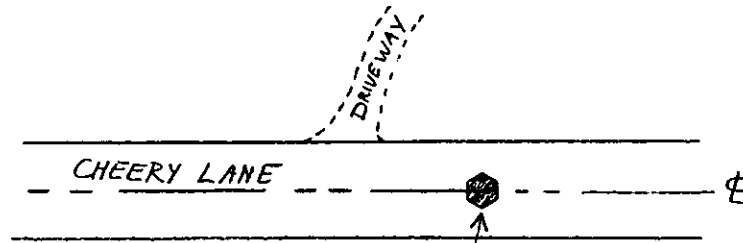
GEODETTIC AND MAPPING COORDINATES

MARK: <u>10142900</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°39'51.814183"	ONE SIGMA ERROR
Longitude:	121°05'33.403374"	
Northing:	606877.4949	0.028
Easting:	3349631.6178	0.022
Convergence:	+ 0°08'02.6460"	
Scale Factor:	1.000162812545	
Ellipsoid Height:	2326.8779	0.245
Orthometric Height:	2392.93	0.257
Geoid Height:	-66.0521	

MARK DATA SHEET

NAME OF MARK: 10142904 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: n/a **COUNTRY:** U.S.A.
LOCATION: SECTION 29 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY MP# 152094

MARK SKETCH:



2" DIAM. BRASS CAP
50'± EAST OF DRIVEWAY

DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

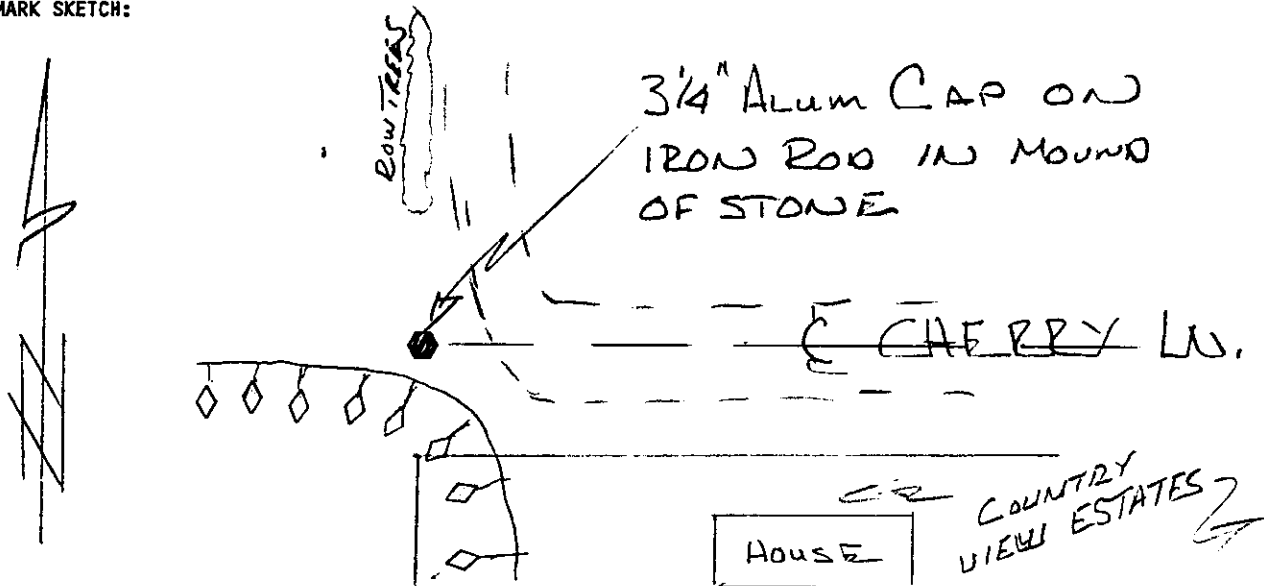
GEODETIC AND MAPPING COORDINATES

MARK: 10142904	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'51.627782"	Northing: 606864.975	0.025
Longitude: 121°04'56.778913"	Easting: 3352279.116	0.019
Convergence: +0°08'28.3909"	Ell. Height: 2290.56	0.052
Scale Factor: 1.000163120608	Ortho. Height: 2356.51	0.056
Combined Factor: 1.00005365	Geoid Height: -65.96	

CONTROL MARK DATA

NAME OF MARK: 10143000 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 10 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 900648

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

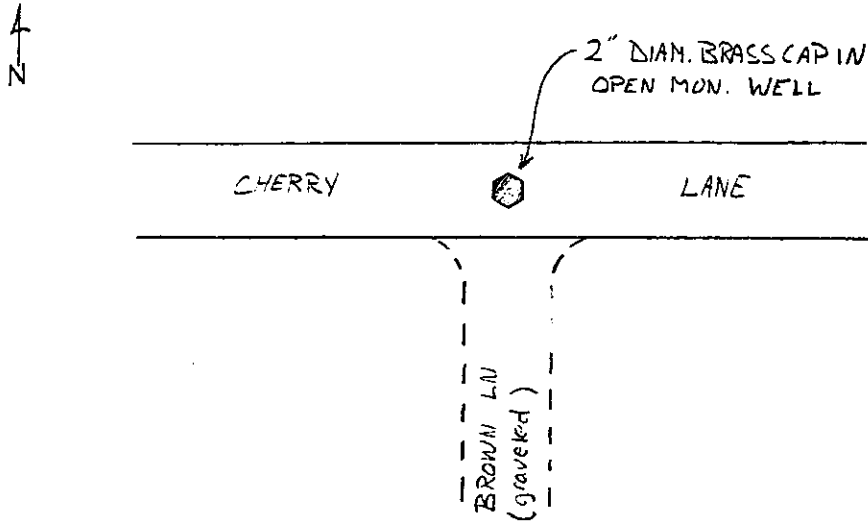
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 10143000</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°39'52.111644"	ONE SIGMA ERROR
Longitude:	121°06'46.401619"	
Northing:	606895.9337	0.022
Easting:	3344354.7722	0.021
Convergence:	+ 0°07'11.3320"	
Scale Factor:	1.000162246276	
Ellipsoid Height:	2503.283	0.031
Orthometric Height:	2569.5235	0.068
Geoid Height:	-66.2405	

MARK DATA SHEET

NAME OF MARK: 10143004 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY NP# 950767

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

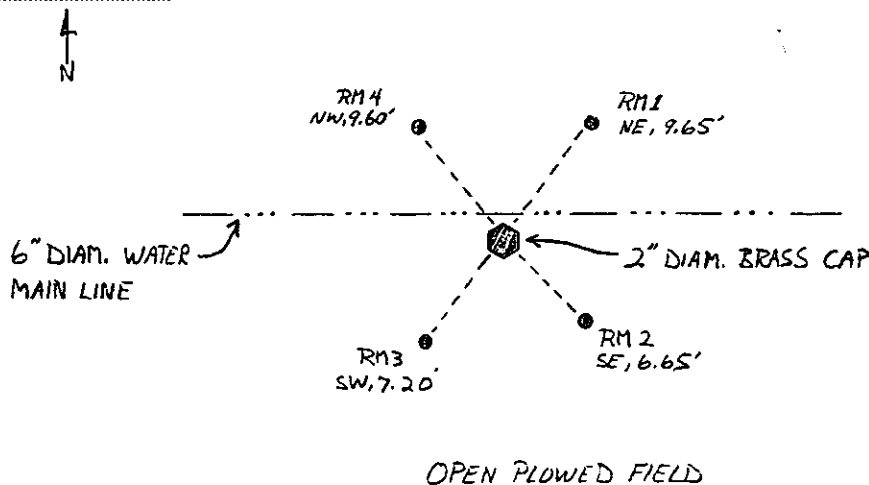
GEODETIC AND MAPPING COORDINATES

MARK: 10143004	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'51.962262"	Northing: 606886.472	0.018
Longitude: 121°06'09.978750"	Easting: 3346987.681	0.016
Convergence: +0°07'36.9354"	Ell. Height: 2367.97	0.044
Scale Factor: 1.000162520871	Ortho. Height: 2434.12	0.047
Combined Factor: 1.00004935	Geoid Height: -66.15	

MARK DATA SHEET

NAME OF MARK: 10143100 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY MP# 920676

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

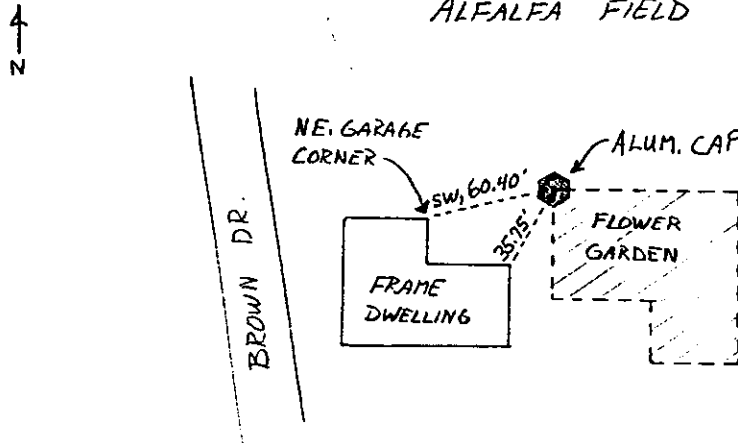
GEODETIC AND MAPPING COORDINATES

MARK: 10143100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.018745"	Northing: 601619.439	0.019
Longitude: 121°06'46.631198"	Easting: 3344349.205	0.011
Convergence: +0°07'11.0604"	Ell. Height: 2302.98	0.039
Scale Factor: 1.000162245720	Ortho. Height: 2369.10	0.043
Combined Factor: 1.00005218	Geoid Height: -66.12	

MARK DATA SHEET

NAME OF MARK: 10143104 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY NFF 883329

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

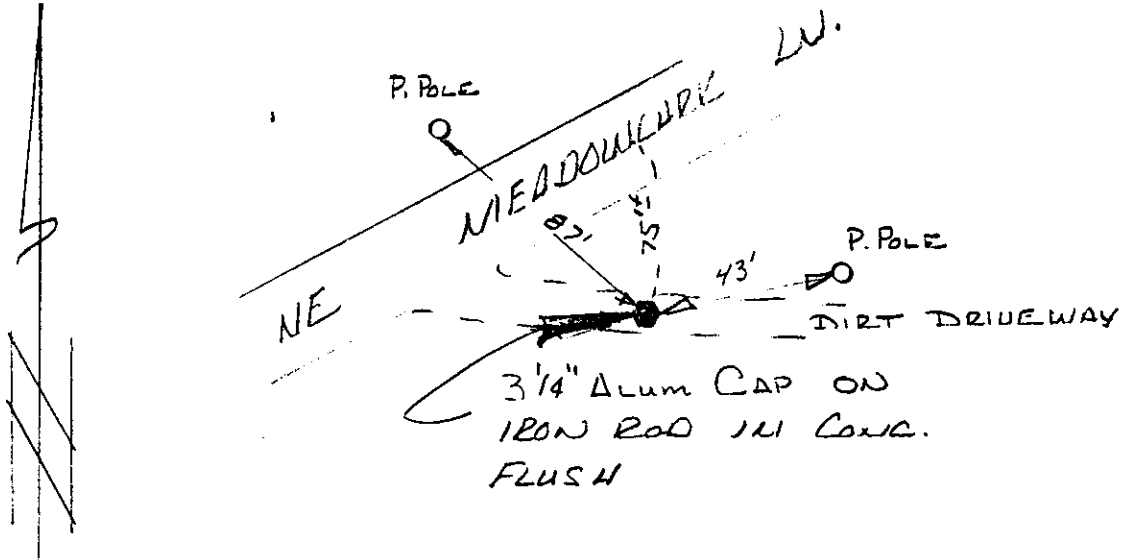
GEODETIC AND MAPPING COORDINATES

MARK: 10143104	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'59.851266"	Northing: 601608.179	0.025
Longitude: 121°06'09.979048"	Easting: 3346999.351	0.016
Convergence: +0°07'36.8184"	Ell. Height: 2324.02	0.048
Scale Factor: 1.000162522132	Ortho. Height: 2390.04	0.052
Combined Factor: 1.00005145	Geoid Height: -66.02	

CONTROL MARK DATA

NAME OF MARK: 10143140 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 10 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 910252

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

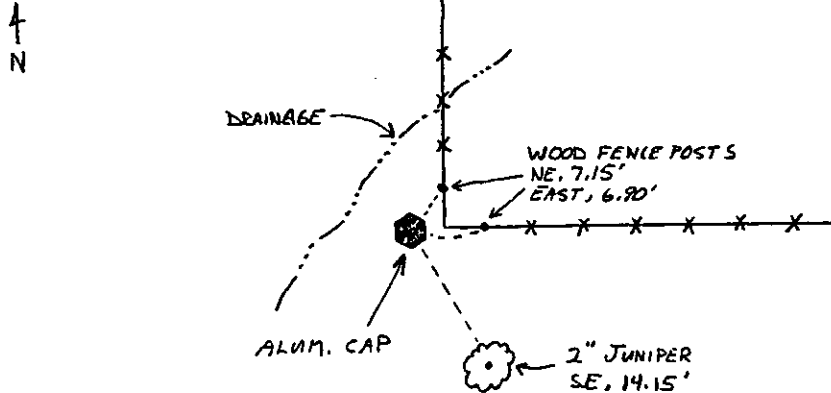
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 10143140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°39'26.065861"	ONE SIGMA ERROR
Longitude:	121°06'46.510630"	
Northing:	604257.753	0.023
Easting:	3344352.4077	0.022
Convergence:	+ 0°07'11.2003"	
Scale Factor:	1.000162246041	
Ellipsoid Height:	2293.0947	0.032
Orthometric Height:	2359.2754	0.065
Geoid Height:	-66.1807	

MARK DATA SHEET

NAME OF MARK: 10143200 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 32 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY MPF 883328

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

MARK: 10143200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'59.680201"	Northing: 601596.883	0.034
Longitude: 121°05'33.345747"	Easting: 3349648.139	0.019
Convergence: +0°08'02.5630"	Ell. Height: 2466.32	0.056
Scale Factor: 1.000162814428	Ortho. Height: 2532.25	0.060
Combined Factor: 1.00004494	Geoid Height: -65.93	

MARK DATA SHEET

NAME OF MARK: 10143204 COUNTY: JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
DATE OF MARK: 1994 COUNTRY: U.S.A.
LOCATION: SECTION 32 TOWNSHIP 10 S RANGE 14 E
REFERENCE: SURVEY MP# 941723

MARK SKETCH:

DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRIMNET

HORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

GEODETIC AND MAPPING COORDINATES

MARK: 10143204	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'59.547693"	Northing: 601589.786	0.033
Longitude: 121°04'56.923920"	Easting: 3352281.632	0.019
Convergence: +0°08'28.1591"	Ell. Height: 2410.13	0.058
Scale Factor: 1.000163120919	Ortho. Height: 2475.96	0.063
Combined Factor: 1.00004793	Geoid Height: -65.83	

MARK DATA SHEET

NAME OF MARK:	10143240	COUNTY:	JEFFERSON
MARK SET BY:	LS 0702 RAYMOND OMAN	STATE:	OREGON
DATE OF MARK:	1984	COUNTRY:	U.S.A.
LOCATION:	SECTION 32 TOWNSHIP 10 S RANGE 14 E		
REFERENCE:	SURVEY MP# 152095		

MARK SKETCH:

DATA COMPUTED BY:	W.C. KAUFFMAN LAND SURVEYOR, LS 1031	DATE:	1995
METHOD-EQUIPMENT:	GPS-TRIMBLE 4000SSE GEODETIC	ADJUSTED WITH:	TRIMNET

HORIZONTAL DATUM:	NAD 83 (91)	VERTICAL DATUM:	NAVD 29
PROJECTION:	TRANSVERSE MERCATOR	ZONE:	CENTRAL OREGON LCS
CENTRAL MERIDIAN:	W 121° 17' 00.00"	ORIGIN NORTHING:	0.00F
LATITUDE OF ORIGIN:	N 43° 00' 00.00"	ORIGIN EASTING:	3,360,000.00F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.0001600

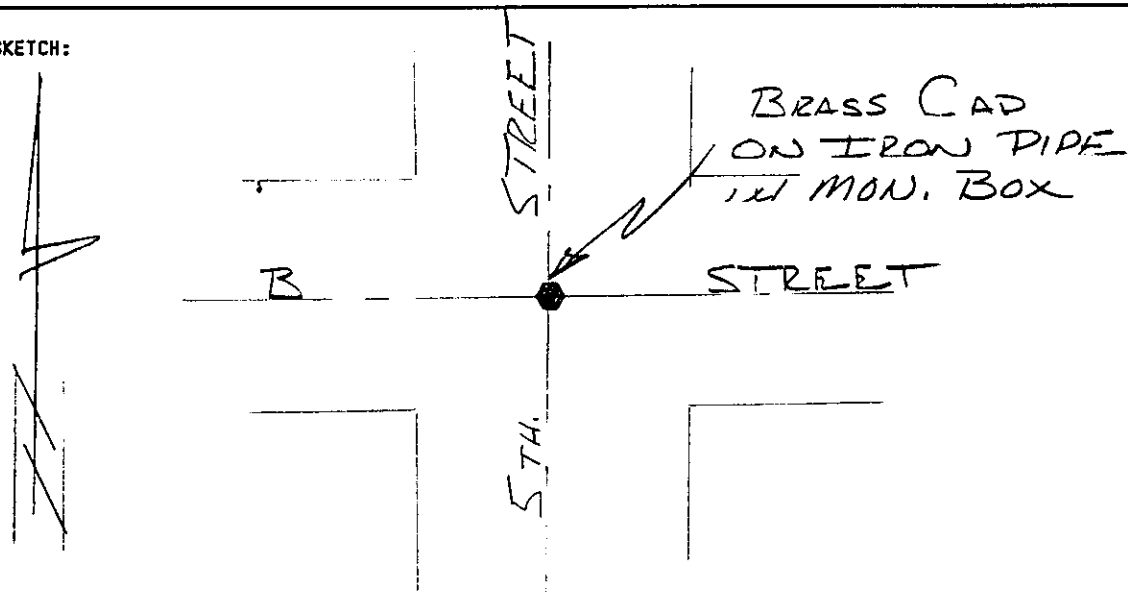
GEODETIC AND MAPPING COORDINATES

MARK:	10143240	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44° 39' 25.754346"	Northing:	604237.910	0.024
Longitude:	121° 05' 33.386429"	Easting:	3349639.019	0.017
Convergence:	+0° 08' 02.5962"	Ell. Height:	2410.65	0.047
Scale Factor:	1.000162813389	Ortho. Height:	2476.64	0.050
Combined Factor:	1.00004760	Geoid Height:	-65.99	

CONTROL MARK DATA

NAME OF MARK: 11130100 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 920783

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

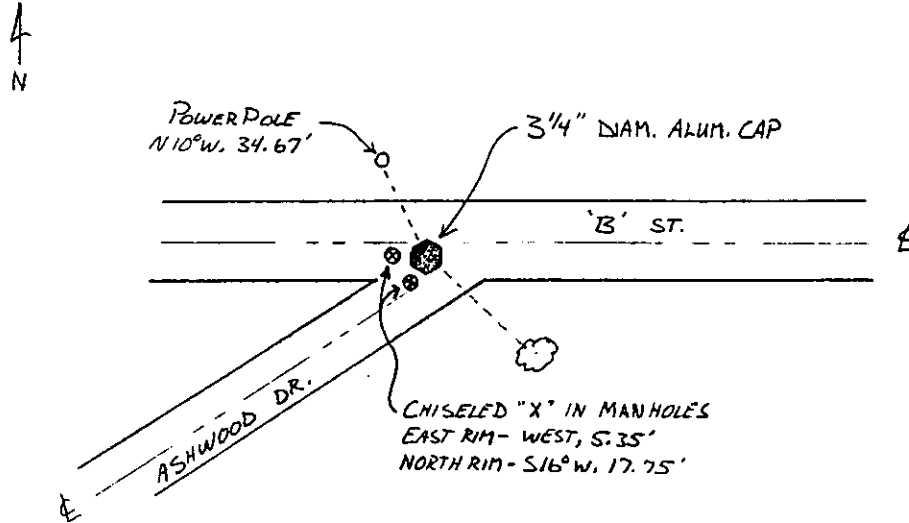
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11130100</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°38'09.425618"	ONE SIGMA ERROR
Longitude:	121°07'46.425262"	
Northing:	596486.308	0.018
Easting:	3340035.501	0.024
Convergence:	+ 0°06'28.9419"	
Scale Factor:	1.000161830104	
Ellipsoid Height:	2175.0739	0.022
Orthometric Height:	2241.1942	0.011
Geoid Height:	-66.1203	

MARK DATA SHEET

NAME OF MARK: 11130104 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1989 **COUNTRY:** U.S.A.
LOCATION: SECTION 1 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 892747

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

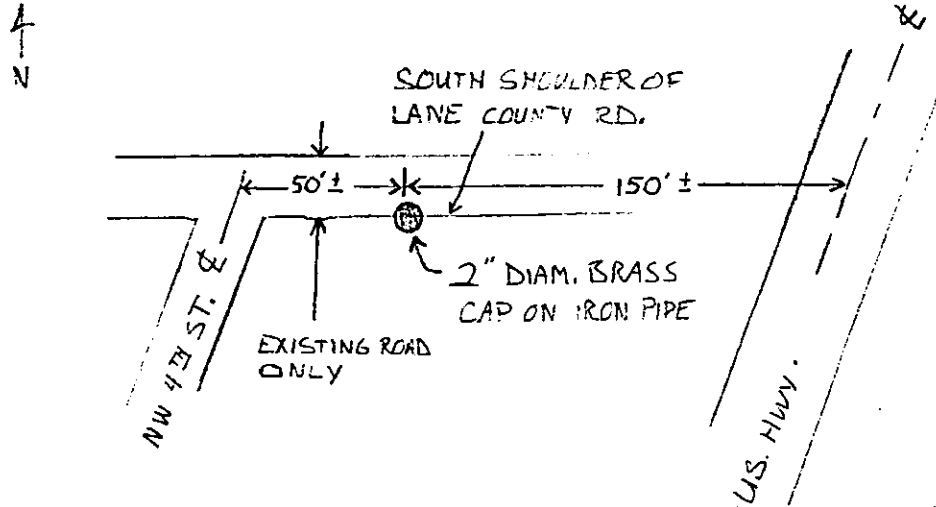
GEODETIC AND MAPPING COORDINATES

MARK: 11130104	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44° 38' 09.275385"	Northing: 596476.243	0.030
Longitude: 121° 07' 09.855505"	Easting: 3342680.321	0.027
Convergence: +0° 06' 54.6356"	Ell. Height: 2214.96	0.074
Scale Factor: 1.000162079892	Ortho. Height: 2281.01	0.075
Combined Factor: 1.00005622	Geoid Height: -66.05	

MARK DATA SHEET

NAME OF MARK: 11130180 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 1 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MPF 942007

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

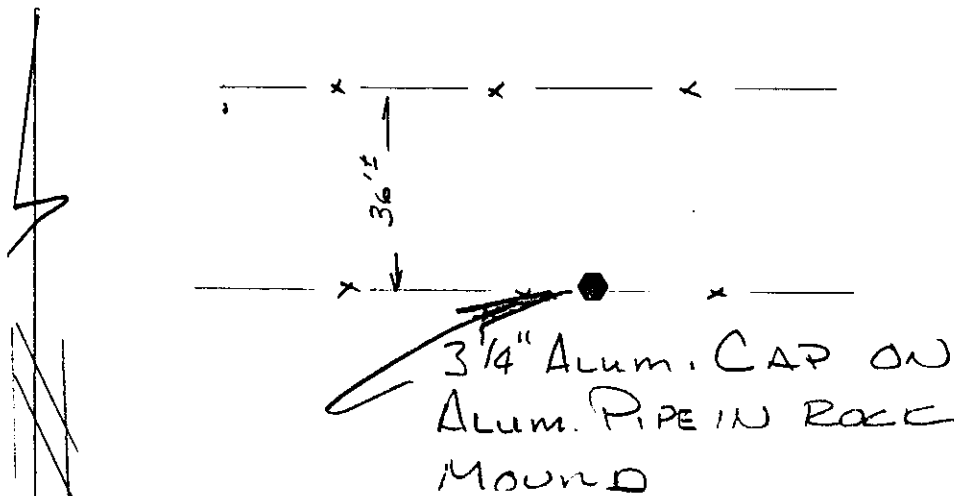
GEODETIC AND MAPPING COORDINATES

MARK: 11130180	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.158166"	Northing: 601624.978	0.029
Longitude: 121°07'46.340878"	Easting: 3340031.911	0.025
Convergence: +0°06'29.0981"	Ell. Height: 2368.41	0.068
Scale Factor: 1.000161829770	Ortho. Height: 2434.66	0.070
Combined Factor: 1.00004864	Geoid Height: -66.25	

CONTROL MARK DATA

NAME OF MARK: 11130200 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

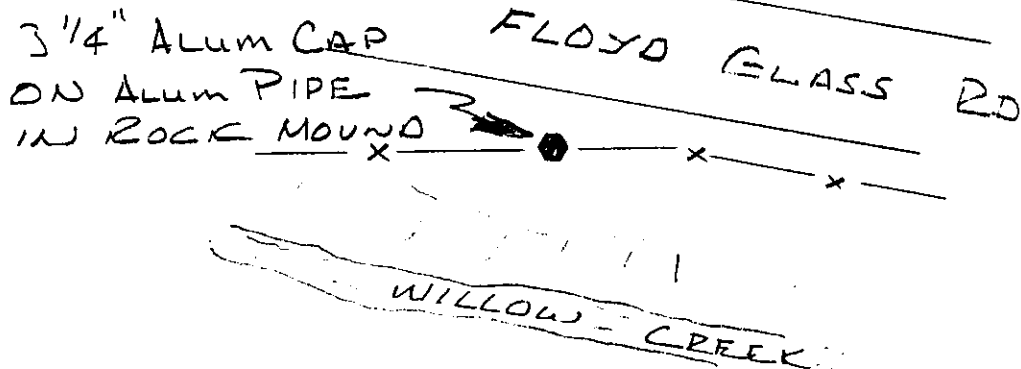
GEODETIC AND MAPPING COORDINATES

<u>MARK: 11130200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°38'09.617302"	ONE SIGMA ERROR
Longitude:	121°08'59.316483"	
Northing:	596496.4375	0.018
Easting:	3334763.8475	0.018
Convergence:	+ 0°05'37.7287"	
Scale Factor:	1.000161379878	
Ellipsoid Height:	2397.2534	0.025
Orthometric Height:	2463.5575	0.053
Geoid Height:	-66.3042	

CONTROL MARK DATA

NAME OF MARK: 11130204 COUNTY: CROOK
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1985 COUNTRY: U.S.A.
LOCATION: SECTION 2 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: MF# 883304

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

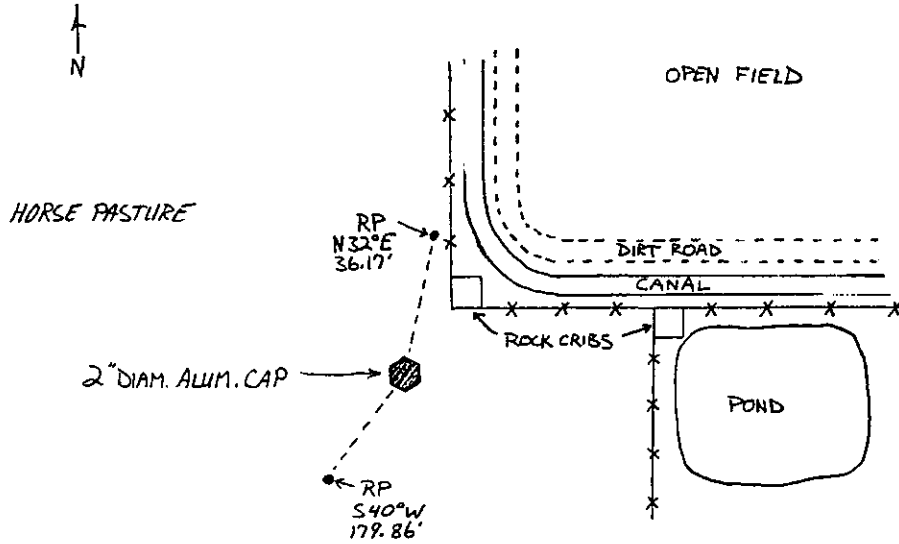
MARK: 11130204 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°38'09.459477"	
Longitude:	121°08'22.872388"	
Northing:	596484.9308	0.015
Easting:	3337399.5745	0.015
Convergence:	+ 0°06'03.3342"	
Scale Factor:	1.000161597050	
Ellipsoid Height:	2183.0879	0.020
Orthometric Height:	2249.307	0.041
Geoid Height:	-66.2192	

MARK DATA SHEET

NAME OF MARK: 11130240 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 2 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 951122

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

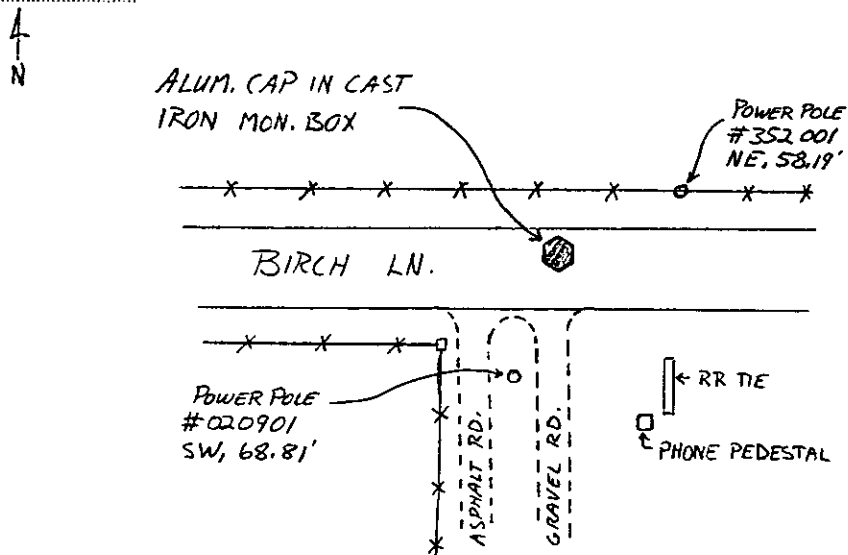
GEODETIC AND MAPPING COORDINATES

MARK: 11130240	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'34.824790"	Northing: 599049.737	0.030
Longitude: 121°08'58.851394"	Easting: 3334793.299	0.015
Convergence: +0°05'38.0973"	Ell. Height: 2377.87	0.056
Scale Factor: 1.000161382215	Ortho. Height: 2444.23	0.058
Combined Factor: 1.00004774	Geoid Height: -66.36	

MARK DATA SHEET

NAME OF MARK: 11130280 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 2 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 883322

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

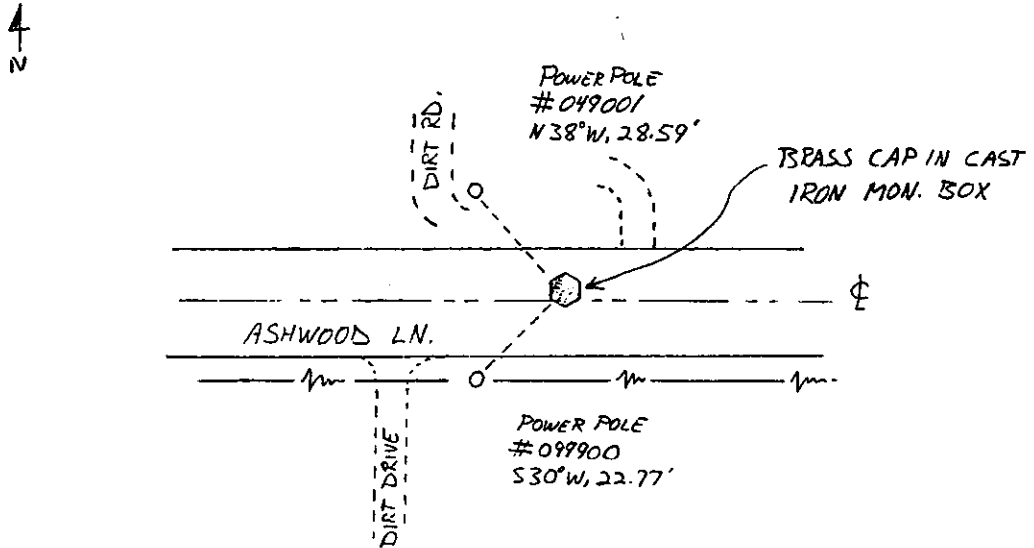
GEODETIC AND MAPPING COORDINATES

MARK: 11130280	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.081334"	Northing: 601607.947	0.024
Longitude: 121°08'58.904768"	Easting: 3334785.246	0.017
Convergence: +0°05'38.1017"	Ell. Height: 2373.12	0.062
Scale Factor: 1.000161381573	Ortho. Height: 2439.54	0.066
Combined Factor: 1.00004796	Geoid Height: -66.42	

MARK DATA SHEET

NAME OF MARK: 11130300 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1985 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 883298

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

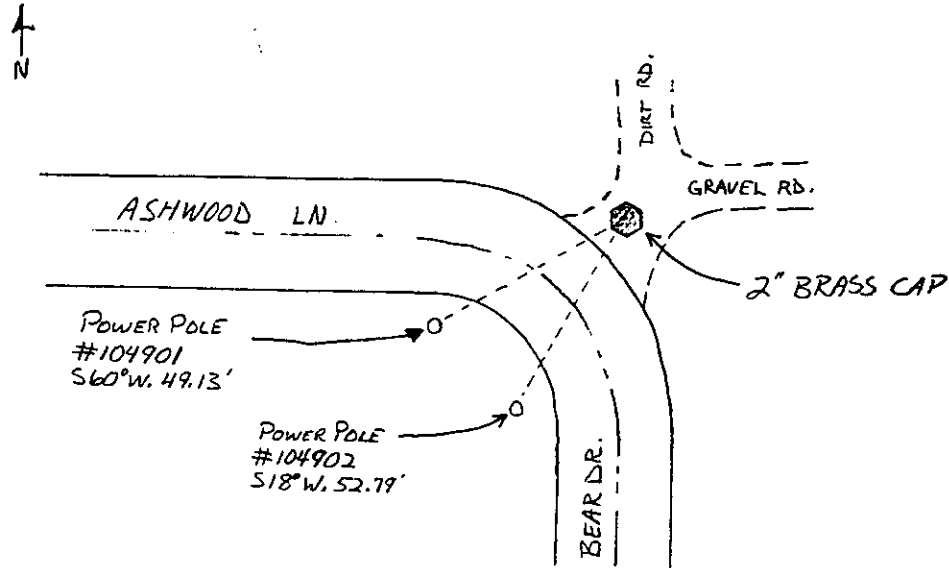
GEODETIC AND MAPPING COORDINATES

MARK: 11130300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'09.817291"	Northing: 596508.736	0.020
Longitude: 121°10'12.019460"	Easting: 3329505.817	0.016
Convergence: +0°04'46.6477"	Ell. Height: 2391.79	0.044
Scale Factor: 1.000160994032	Ortho. Height: 2458.24	0.051
Combined Factor: 1.00004668	Geoid Height: -66.46	

MARK DATA SHEET

NAME OF MARK: 11130304 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1985 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 883297

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

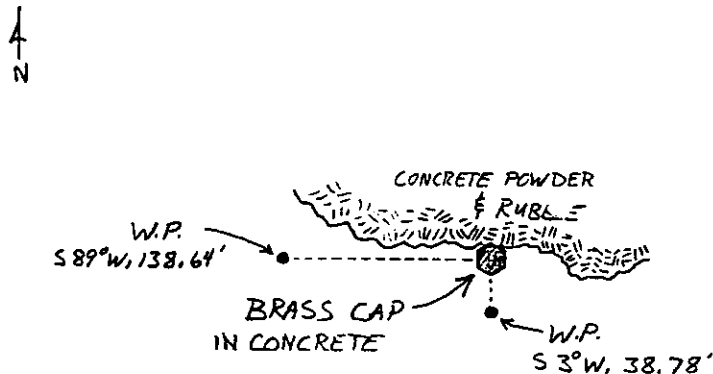
GEODETIC AND MAPPING COORDINATES

MARK: 11130304	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'09.880783"	Northing: 596518.984	0.014
Longitude: 121°09'35.665402"	Easting: 3332134.992	0.010
Convergence: +0°05'12.1903"	Ell. Height: 2401.07	0.029
Scale Factor: 1.000161179075	Ortho. Height: 2467.45	0.035
Combined Factor: 1.00004643	Geoid Height: -66.38	

MARK DATA SHEET

NAME OF MARK: 11130380 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1991 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 912676

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

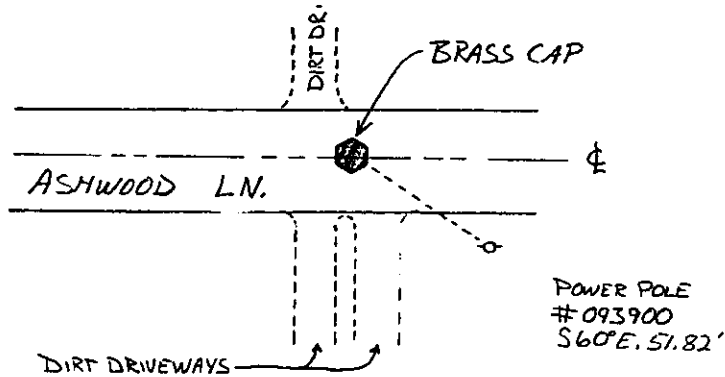
GEODETIC AND MAPPING COORDINATES

MARK: 11130380	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44° 39' 00.003303"	Northing: 601592.046	0.011
Longitude: 121° 10' 11.916876"	Easting: 3329506.169	0.008
Convergence: +0° 04' 46.7905"	Ell. Height: 2367.58	0.027
Scale Factor: 1.000160994052	Ortho. Height: 2434.15	0.040
Combined Factor: 1.00004784	Geoid Height: -66.57	

MARK DATA SHEET

NAME OF MARK: 11130404 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1985 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 883300

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,380,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

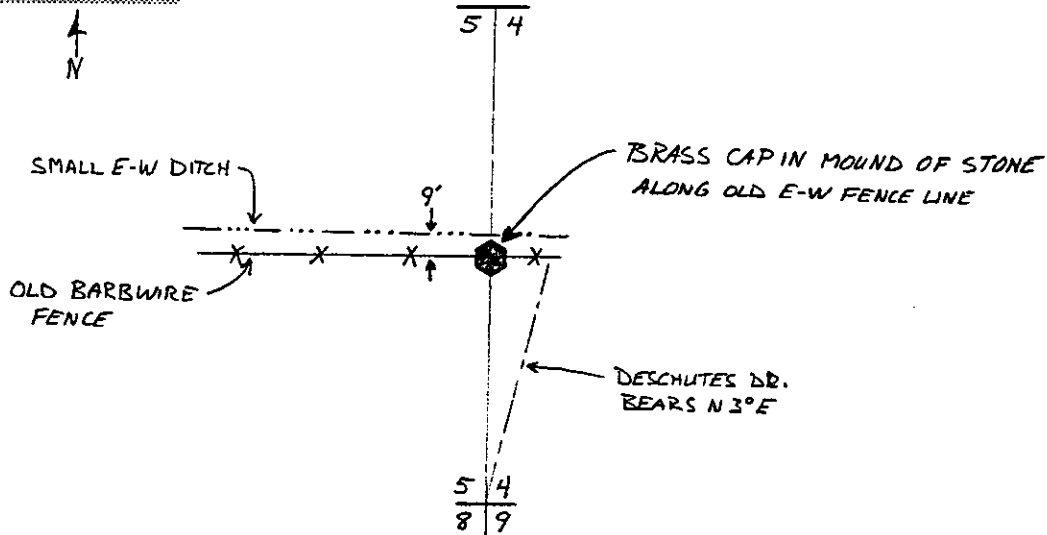
GEODETIC AND MAPPING COORDINATES

MARK: 11130404	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'09.752792"	Northing: 596498.711	0.024
Longitude: 121°10'48.383688"	Easting: 3326875.905	0.019
Convergence: +0°04'21.0981"	Ell. Height: 2380.52	0.056
Scale Factor: 1.000160824729	Ortho. Height: 2447.05	0.064
Combined Factor: 1.00004705	Geoid Height: -66.53	

MARK DATA SHEET

NAME OF MARK: 11130440 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1991 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 912674

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

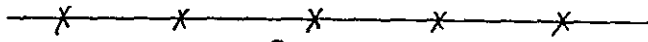
MARK: 11130440	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'35.209989"	Northing: 599074.084	0.026
Longitude: 121°11'24.718277"	Easting: 3324245.182	0.016
Convergence: +0°03'55.5988"	Ell. Height: 2364.07	0.061
Scale Factor: 1.000160671174	Ortho. Height: 2430.72	0.072
Combined Factor: 1.00004769	Geoid Height: -66.65	

MARK DATA SHEET

NAME OF MARK: 11130480 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1991 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 912677

MARK SKETCH:

↑
N



BRASS CAP IN 3' DIAM.
MOUND OF STONE, 16' SOUTH
OF E-W FENCE IN FIELD.

PLOWED FIELD

DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

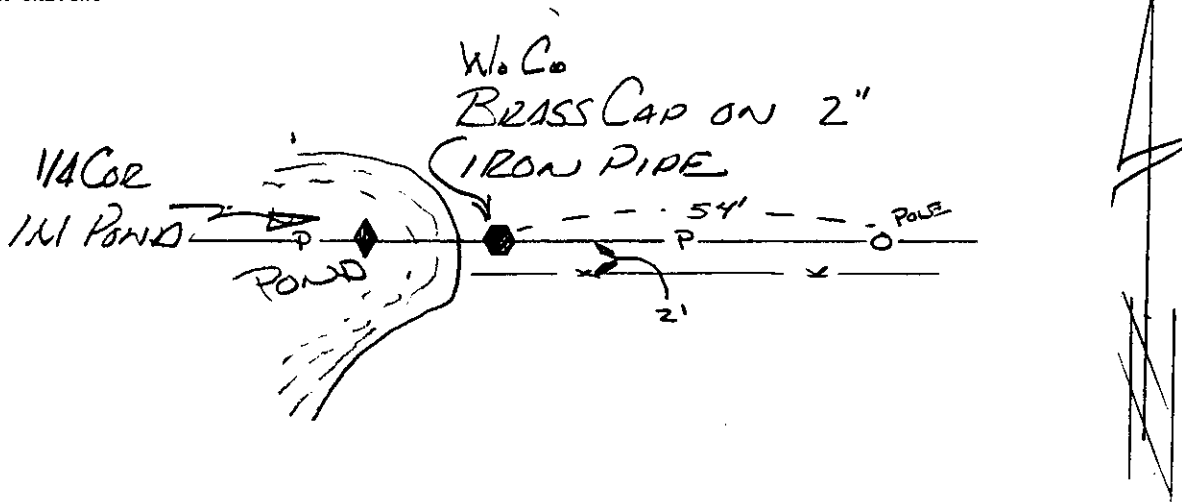
GEODETIC AND MAPPING COORDINATES

MARK: 11130480	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°39'00.002495"	Northing: 601585.301	0.028
Longitude: 121°11'24.686953"	Easting: 3324244.579	0.017
Convergence: +0°03'55.6494"	Ell. Height: 2359.30	0.061
Scale Factor: 1.000160671139	Ortho. Height: 2426.01	0.074
Combined Factor: 1.00004791	Geoid Height: -66.70	

CONTROL MARK DATA

NAME OF MARK: 11131104-W.C. COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 912698

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

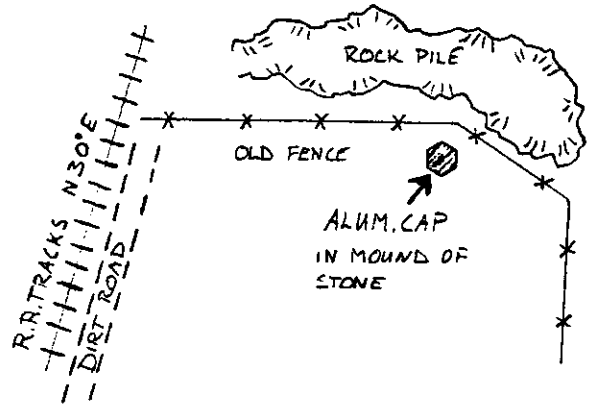
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11131104-W.C.</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°37'17.412628"	ONE SIGMA ERROR
Longitude:	121°08'22.853993"	
Northing:	591213.1639	0.017
Easting:	3337410.1902	0.017
Convergence:	+ 0°06'03.2542"	
Scale Factor:	1.000161597962	
Ellipsoid Height:	2247.7302	0.024
Orthometric Height:	2313.8741	0.041
Geoid Height:	-66.1439	

MARK DATA SHEET

NAME OF MARK:	11131140	COUNTY:	JEFFERSON
MARK SET BY:	LS 0654 NORMAN NEWTON	STATE:	OREGON
DATE OF MARK:	1970	COUNTRY:	U.S.A.
LOCATION:	SECTION 11 TOWNSHIP 11 S RANGE 13 E		
REFERENCE:	SURVEY NF#	950495	

MARK SKETCH:



DATA COMPUTED BY:	W.C. KAUFFMAN LAND SURVEYOR, LS 1031	DATE:	1995
METHOD-EQUIPMENT:	GPS-TRIMBLE 4000SSE GEODETIC	ADJUSTED WITH:	TRIMNET

HORIZONTAL DATUM:	NAD 83 (91)	VERTICAL DATUM:	NAVD 29
PROJECTION:	TRANSVERSE MERCATOR	ZONE:	CENTRAL OREGON LCS
CENTRAL MERIDIAN:	W 121° 17' 00.00"	ORIGIN NORTHING:	0.00F
LATITUDE OF ORIGIN:	N 43° 00' 00.00"	ORIGIN EASTING:	3,300,000.00F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.0001600

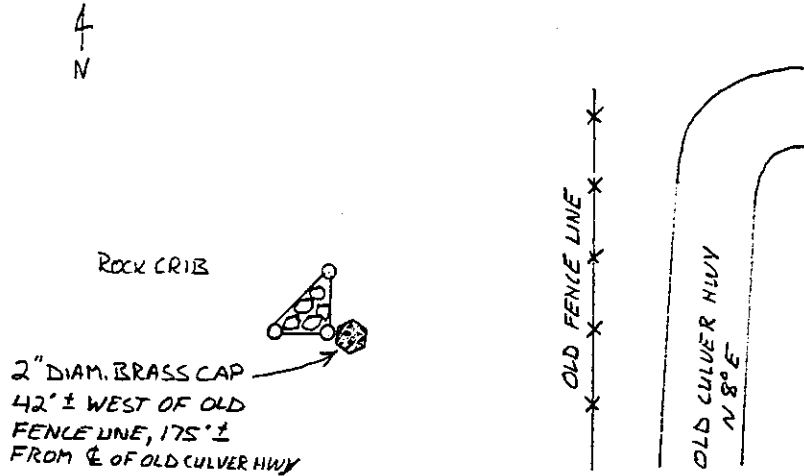
GEODETIC AND MAPPING COORDINATES

MARK:	11131140	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°37'43.493498"	Northing:	593850.365	0.023
Longitude:	121°08'59.474120"	Easting:	3334756.778	0.016
Convergence:	+0°05'37.5747"	Ell. Height:	2395.11	0.041
Scale Factor:	1.000161379319	Ortho. Height:	2461.36	0.044
Combined Factor:	1.00004691	Geoid Height:	-66.25	

MARK DATA SHEET

NAME OF MARK: 11131144 **COUNTY:** JEFFERSON
MARK SET BY: LS 0654 NORMAN NEWTON **STATE:** OREGON
DATE OF MARK: 1970 **COUNTRY:** U.S.A.
LOCATION: SECTION 11 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MF# 950544

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON ECS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

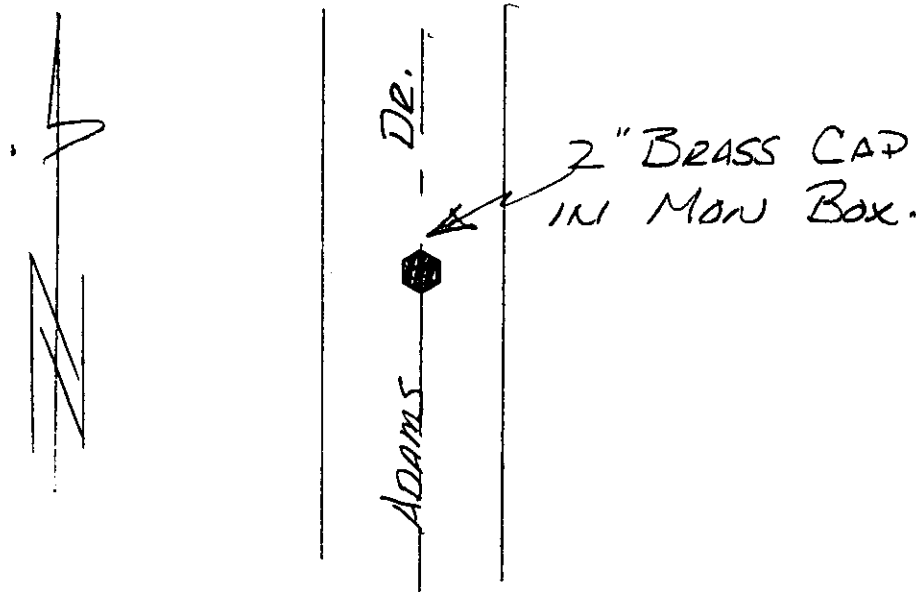
GEODETIC AND MAPPING COORDINATES

MARK:	11131144	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°37'43.413888"	Northing:	593846.790	0.026
Longitude:	121°08'22.944686"	Easting:	3337398.992	0.020
Convergence:	+0°06'03.2369"	Ell. Height:	2231.17	0.053
Scale Factor:	1.000161597003	Ortho. Height:	2297.35	0.055
Combined Factor:	1.00005496	Geoid Height:	-66.18	

CONTROL MARK DATA

NAME OF MARK: 11131200 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 920255

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

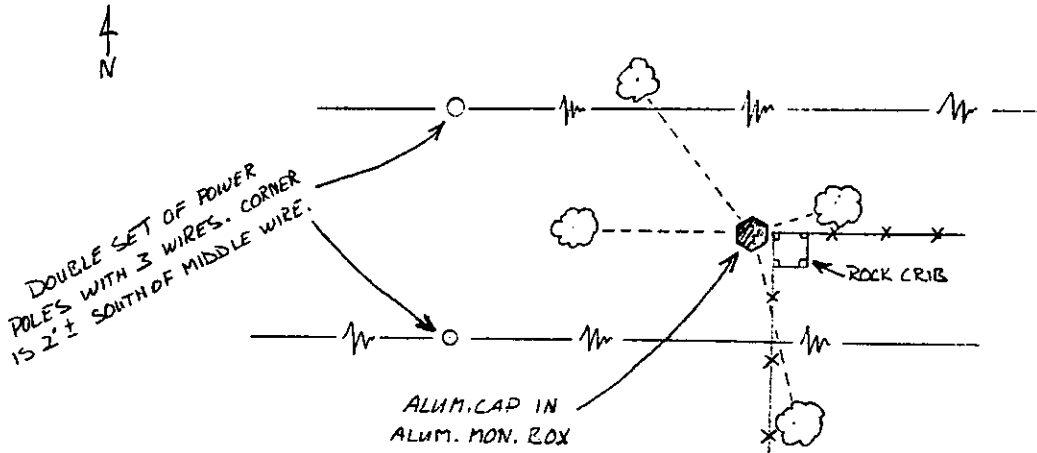
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11131200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°37'17.317580"	ONE SIGMA ERROR
Longitude:	121°07'46.590877"	
Northing:	591208.3184	0.016
Easting:	3340033.4715	0.016
Convergence:	+ 0°06'28.7261"	
Scale Factor:	1.000161829925	
Ellipsoid Height:	2296.5904	0.020
Orthometric Height:	2362.6837	FIXED
Geoid Height:	-66.0933	

MARK DATA SHEET

NAME OF MARK: 11131204 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1985 **COUNTRY:** U.S.A.
LOCATION: SECTION 12 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MF# 860214

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

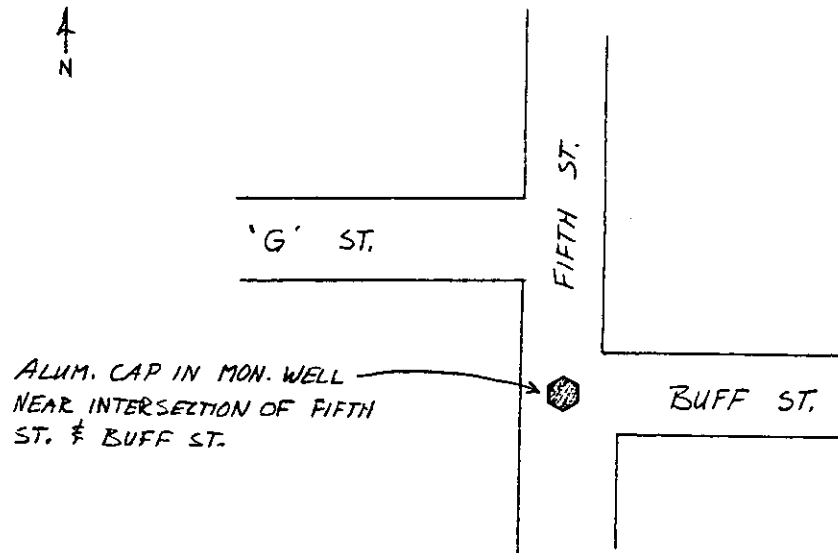
GEODETIC AND MAPPING COORDINATES

MARK: 11131204	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°37'17.192220"	Northing: 591200.804	0.032
Longitude: 121°07'09.793744"	Easting: 3342695.392	0.025
Convergence: +0°06'54.5729"	Ell. Height: 2279.86	0.085
Scale Factor: 1.000162081368	Ortho. Height: 2345.83	0.085
Combined Factor: 1.00005312	Geoid Height: -65.98	

MARK DATA SHEET

NAME OF MARK: 11131240 COUNTY: JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
DATE OF MARK: 1994 COUNTRY: U.S.A.
LOCATION: SECTION 12 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY N# 940961

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRIMNET

HORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

GEODETIC AND MAPPING COORDINATES

MARK:	11131240	HORIZONTAL ORDER:	SECOND	ONE SIGMA ERROR
Latitude:	44°37'43.342181"	Northing:	593844.337	0.017
Longitude:	121°07'46.470536"	Easting:	3340037.208	0.008
Convergence:	+0°06'28.8603"	Ell. Height:	2570.26	0.029
Scale Factor:	1.000161830263	Ortho. Height:	2635.93	0.037
Combined Factor:	1.00005587	Geoid Height:	-65.65	

MARK DATA SHEET

NAME OF MARK: 11131244 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 12 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MFF 944881

MARK SKETCH:



MADRAS HIGH SCHOOL

SE. BUFF ST.



2" DIAM. BRASS CAP 9" BELOW LAWN SURFACE, 3.7' NORTH OF 12" DIAM. DECIDUOUS TREE & 8.15' SOUTH OF SOUTH CURB FACE OF SE. BUFF ST.

BUFF ELEMENTARY SCHOOL

DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91)	VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR	ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00"	ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00"	ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT	SCALE ALONG MERIDIAN: 1.0001600

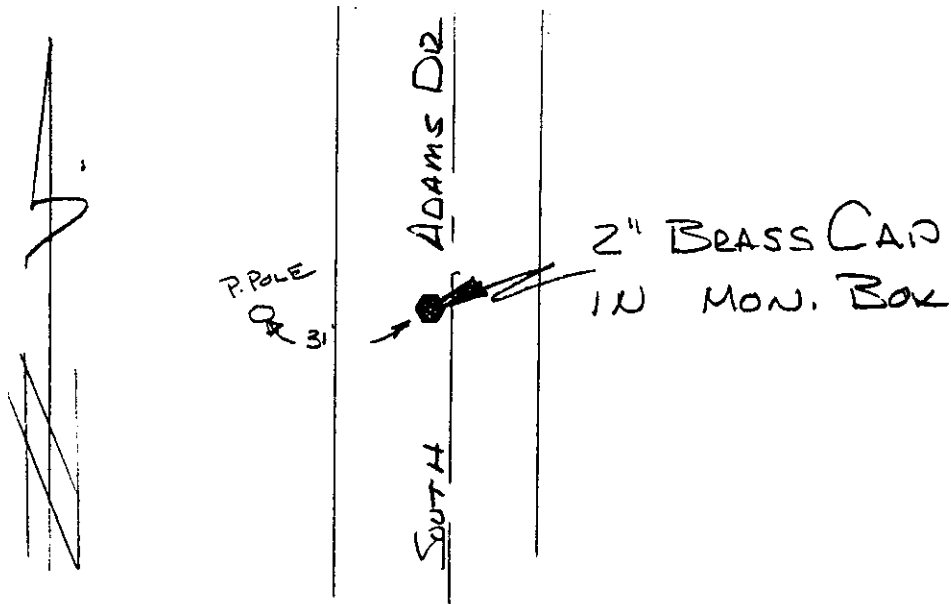
GEODETIC AND MAPPING COORDINATES

MARK: 11131244	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°37'43.254167"	Northing: 593840.587	0.036
Longitude: 121°07'09.810220"	Easting: 3342688.894	0.028
Convergence: +0°06'54.6144"	Ell. Height: 2189.96	0.088
Scale Factor: 1.000162080731	Ortho. Height: 2255.97	0.089
Combined Factor: 1.00005742	Geoid Height: -66.01	

CONTROL MARK DATA

NAME OF MARK: 11131300 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 900646

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

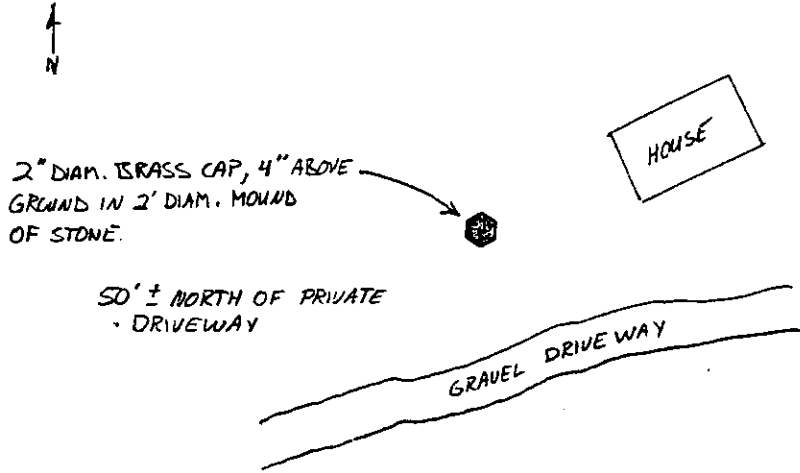
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11131300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°36'25.355241"	ONE SIGMA ERROR
Longitude:	121°07'46.877060"	
Northing:	585945.0835	0.022
Easting:	3340022.6818	0.022
Convergence:	+ 0°06'28.4258"	
Scale Factor:	1.000161828945	
Ellipsoid Height:	2388.6369	0.031
Orthometric Height:	2454.554	0.049
Geoid Height:	-65.9171	

MARK DATA SHEET

NAME OF MARK: 11131304 COUNTY: JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
DATE OF MARK: 1995 COUNTRY: U.S.A.
LOCATION: SECTION 13 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY NFF 950493

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRIMNET

HORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

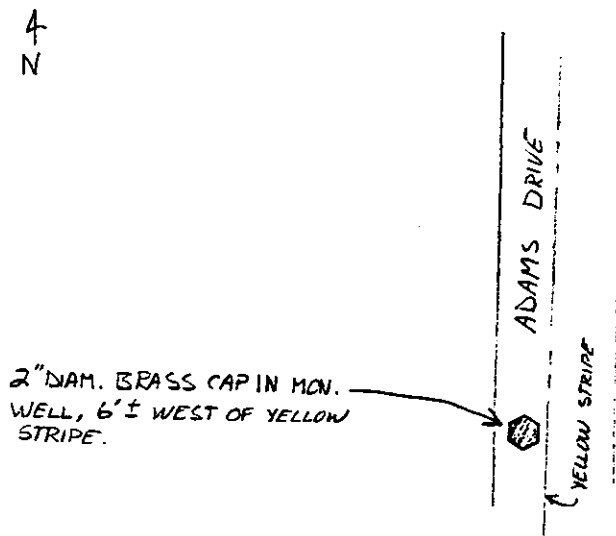
GEODETIC AND MAPPING COORDINATES

MARK:	11131304	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°36'25.352418"	Northing:	585949.974	0.022
Longitude:	121°07'10.110943"	Easting:	3342582.993	0.024
Convergence:	+0°06'54.2446"	Ell. Height:	2390.57	0.055
Scale Factor:	1.000162080166	Ortho. Height:	2456.40	0.057
Combined Factor:	1.00004783	Geoid Height:	-65.83	

MARK DATA SHEET

NAME OF MARK: 11131340 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: n/a **COUNTRY:** U.S.A.
LOCATION: SECTION 13 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 911218

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

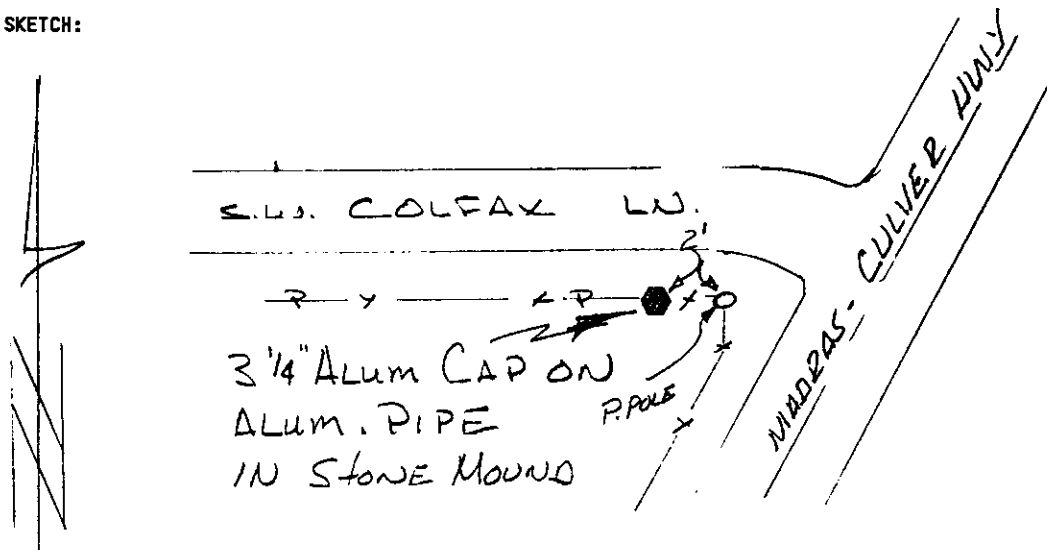
GEODETIC AND MAPPING COORDINATES

MARK: 11131340	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°36'51.335451"	Northing: 588576.602	0.022
Longitude: 121°07'46.734859"	Easting: 3340028.014	0.013
Convergence: +0°06'28.5753"	Ell. Height: 2332.98	0.040
Scale Factor: 1.000161829429	Ortho. Height: 2398.98	0.043
Combined Factor: 1.00005033	Geoid Height: -66.01	

CONTROL MARK DATA

NAME OF MARK: 11131400 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883302

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

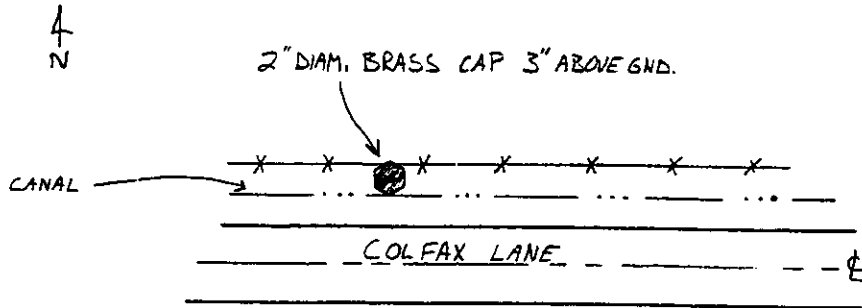
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>11131400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°36'25.452121"	ONE SIGMA ERROR
Longitude:	121°08'59.556332"	
Northing:	585945.6437	0.017
Easting:	3334763.7635	0.017
Convergence:	+ 0°05'37.3875"	
Scale Factor:	1.000161379881	
Ellipsoid Height:	2316.4755	0.023
Orthometric Height:	2382.5262	FIXED
Geoid Height:	-66.0507	

MARK DATA SHEET

NAME OF MARK: 11131404 COUNTY: JEFFERSON
 MARK SET BY: TENNESON ENG CORP STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 11 S RANGE 13 E
 REFERENCE: SURVEY MP# 911217

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
 METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRIMNET

HORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
 PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
 CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
 LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

GEODETIC AND MAPPING COORDINATES

MARK:	11131404	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°36'25.402499"	Northing:	585945.078	0.018
Longitude:	121°08'23.241695"	Easting:	3337391.413	0.017
Convergence:	+0°06'02.8891"	Ell. Height:	2306.42	0.048
Scale Factor:	1.000161596364	Ortho. Height:	2372.42	0.051
Combined Factor:	1.00005137	Geoid Height:	-66.00	

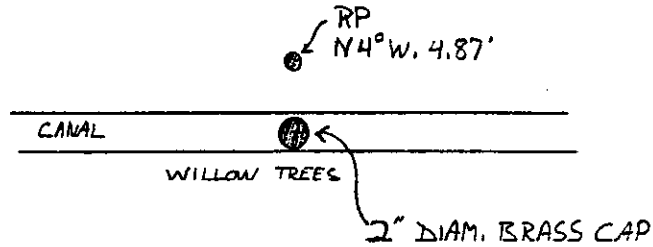
MARK DATA SHEET

NAME OF MARK: 11131440 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 14 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MF# 944991

MARK SKETCH:



JUNIPER HEIGHTS
SUBDIVISION



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400USSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

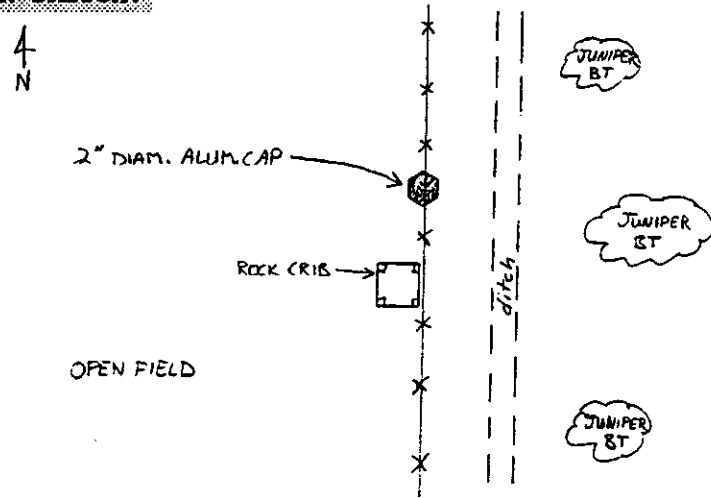
GEODETIC AND MAPPING COORDINATES

MARK: 11131440	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°36'51.486843"	Northing: 588582.561	0.023
Longitude: 121°08'59.586313"	Easting: 3334757.281	0.016
Convergence: +0°05'37.4096"	Ell. Height: 2403.66	0.048
Scale Factor: 1.000161379364	Ortho. Height: 2469.80	0.051
Combined Factor: 1.00004650	Geoid Height: -66.15	

MARK DATA SHEET

NAME OF MARK: 11131444 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 14 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 950869

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

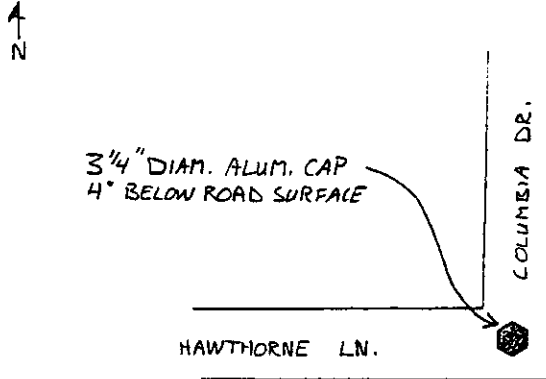
GEODETIC AND MAPPING COORDINATES

MARK: 11131444	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°36'51.411092"	Northing: 588579.468	0.025
Longitude: 121°08'23.114050"	Easting: 3337396.013	0.018
Convergence: +0°06'03.0252"	Ell. Height: 2290.71	0.053
Scale Factor: 1.000161596754	Ortho. Height: 2356.75	0.055
Combined Factor: 1.00005212	Geoid Height: -66.08	

MARK DATA SHEET

NAME OF MARK: 11131500 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1990 **COUNTRY:** U.S.A.
LOCATION: SECTION 15 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 910460

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

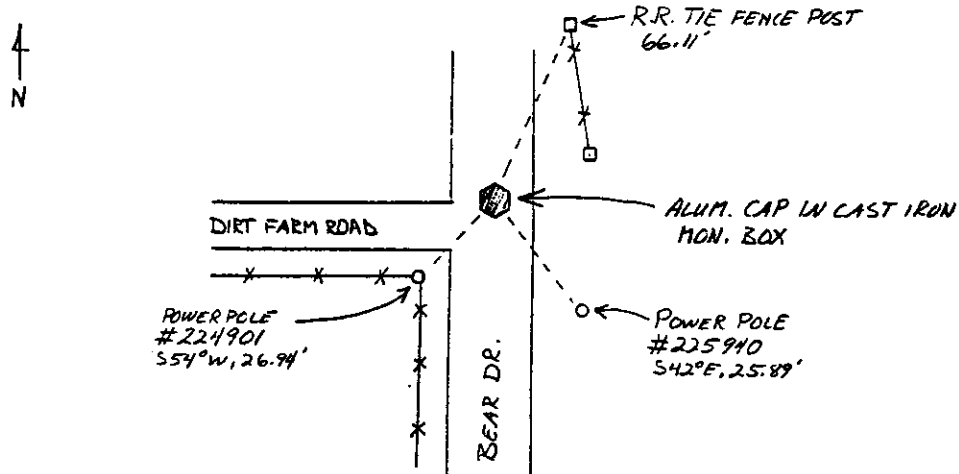
GEODETIC AND MAPPING COORDINATES

MARK: 11131500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°36'25.681166"	Northing: 585960.934	0.021
Longitude: 121°10'11.818636"	Easting: 3329535.002	0.017
Convergence: +0°04'46.6422"	Ell. Height: 2412.93	0.055
Scale Factor: 1.000160996006	Ortho. Height: 2479.15	0.060
Combined Factor: 1.00004568	Geoid Height: -66.22	

MARK DATA SHEET

NAME OF MARK: 11131504 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 15 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 883306

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

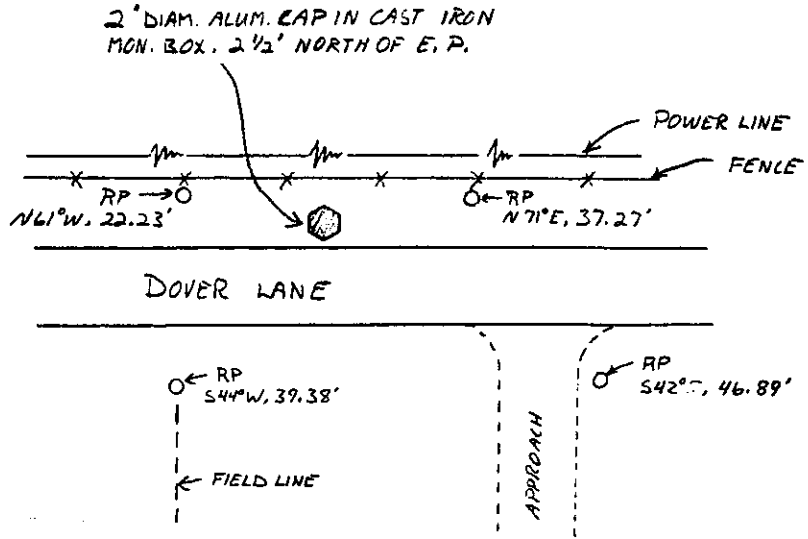
GEODETIC AND MAPPING COORDINATES

MARK: 11131504	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°36'25.537195"	Northing: 585950.148	0.021
Longitude: 121°09'35.663293"	Easting: 3332151.136	0.018
Convergence: +0°05'12.0318"	Ell. Height: 2419.97	0.063
Scale Factor: 1.000161180268	Ortho. Height: 2486.12	0.066
Combined Factor: 1.00004552	Geoid Height: -66.15	

MARK DATA SHEET

NAME OF MARK: 11132100 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 21 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 951778

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

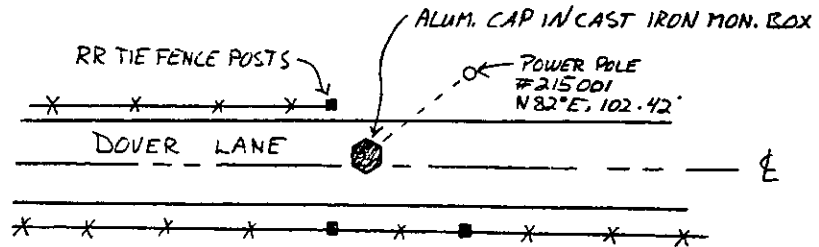
GEODETIC AND MAPPING COORDINATES

MARK: 11132100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44° 35' 33.915565"	Northing: 580711.027	0.031
Longitude: 121° 11' 24.428987"	Easting: 3324287.085	0.023
Convergence: +0° 03' 55.5921"	Ell. Height: 2416.55	0.073
Scale Factor: 1.000160673504	Ortho. Height: 2482.77	0.078
Combined Factor: 1.00004518	Geoid Height: -66.22	

MARK DATA SHEET

NAME OF MARK: 11132104 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 21 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY NF# 883309

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON ECS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

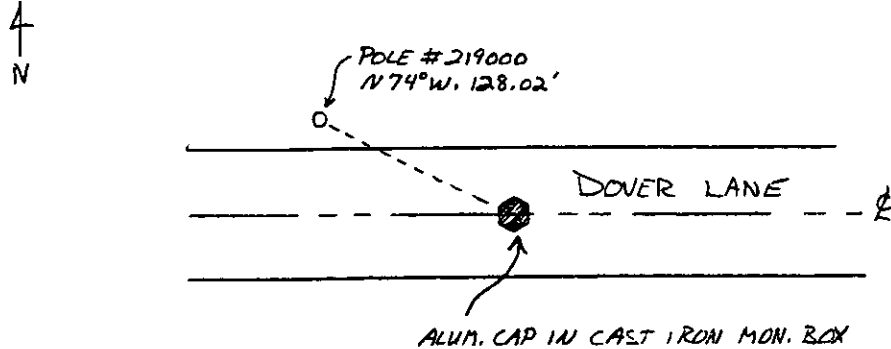
GEODETIC AND MAPPING COORDINATES

MARK: 11132104	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'33.766038"	Northing: 580699.040	0.029
Longitude: 121°10'48.175342"	Easting: 3326910.976	0.021
Convergence: +0°04'21.0443"	Ell. Height: 2427.18	0.065
Scale Factor: 1.000160826891	Ortho. Height: 2493.33	0.070
Combined Factor: 1.00004482	Geoid Height: -66.15	

MARK DATA SHEET

NAME OF MARK: 11132200 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MPP 883308

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

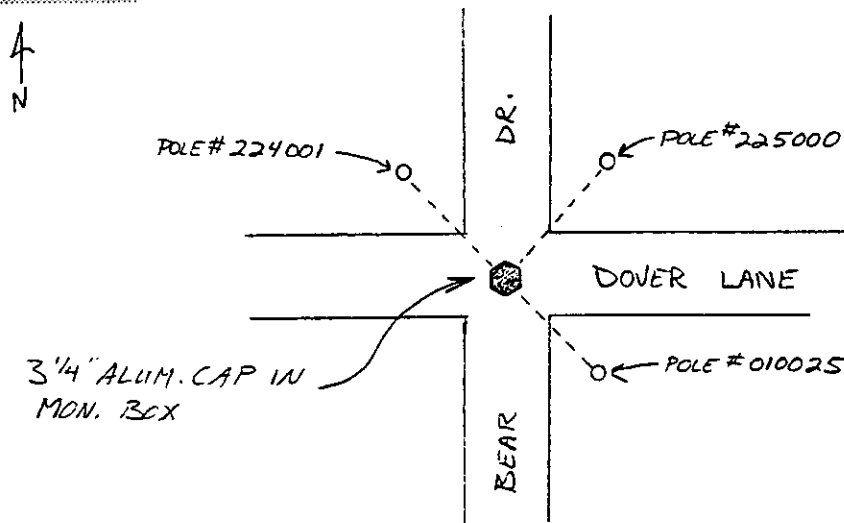
GEODETIC AND MAPPING COORDINATES

MARK: 11132200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'33.615137"	Northing: 580687.254	0.026
Longitude: 121°10'11.764714"	Easting: 3329546.233	0.019
Convergence: +0°04'46.6067"	Ell. Height: 2453.51	0.055
Scale Factor: 1.000160996767	Ortho. Height: 2519.60	0.061
Combined Factor: 1.00004374	Geoid Height: -66.08	

MARK DATA SHEET

NAME OF MARK: 11132204 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# B83307

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

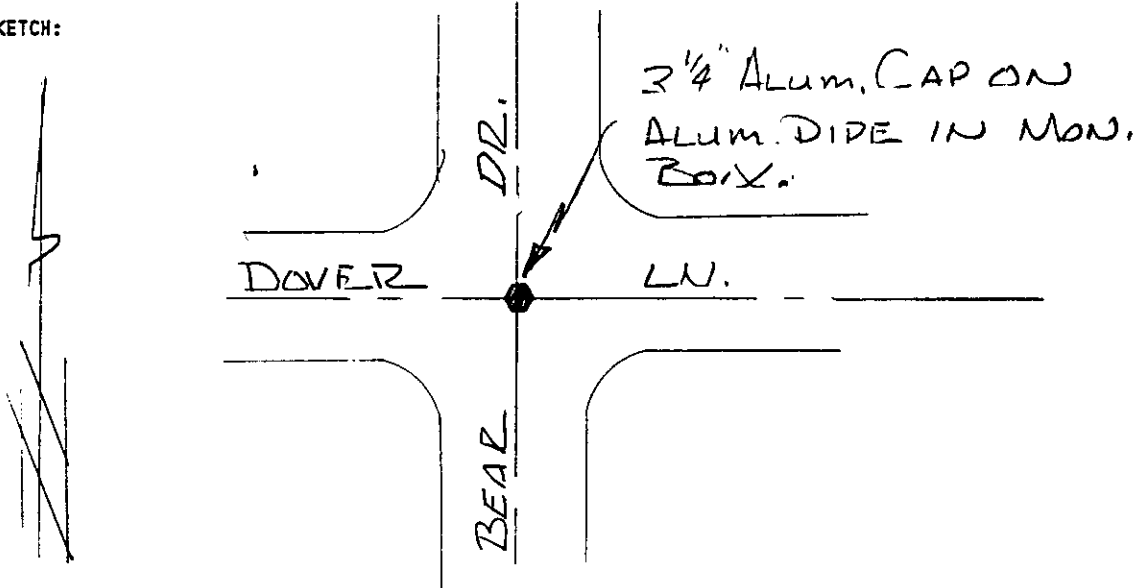
GEODETIC AND MAPPING COORDINATES

MARK: 11132204	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'33.516238"	Northing: 580680.993	0.019
Longitude: 121°09'35.983757"	Easting: 3332135.913	0.017
Convergence: +0°05'11.7270"	Ell. Height: 2440.22	0.048
Scale Factor: 1.000161179155	Ortho. Height: 2506.23	0.052
Combined Factor: 1.00004455	Geoid Height: -66.00	

CONTROL MARK DATA

NAME OF MARK: 11132204 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1986 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883307

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

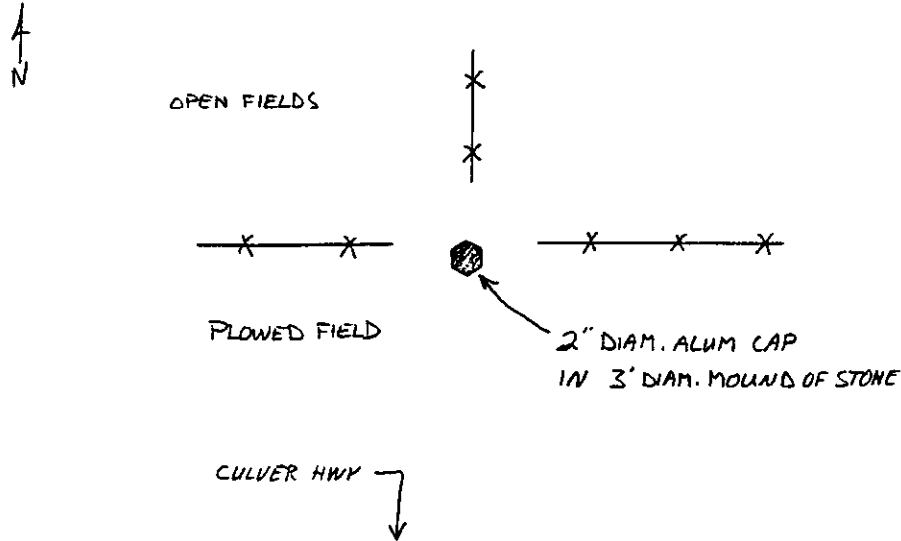
MARK: 11132204 HORIZONTAL ORDER: SECOND

Latitude:	44°35'33.516478"	ONE
Longitude:	121°09'35.981447"	SIGMA
Northing:	580681.0176	ERROR
Easting:	3332136.0798	0.029
Convergence:	+ 0°05'11.7286"	0.032
Scale Factor:	1.000161179167	
Ellipsoid Height:	2440.2888	0.055
Orthometric Height:	2506.1838	0.055
Geoid Height:	-65.895	

MARK DATA SHEET

NAME OF MARK: 11132240 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 950796

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

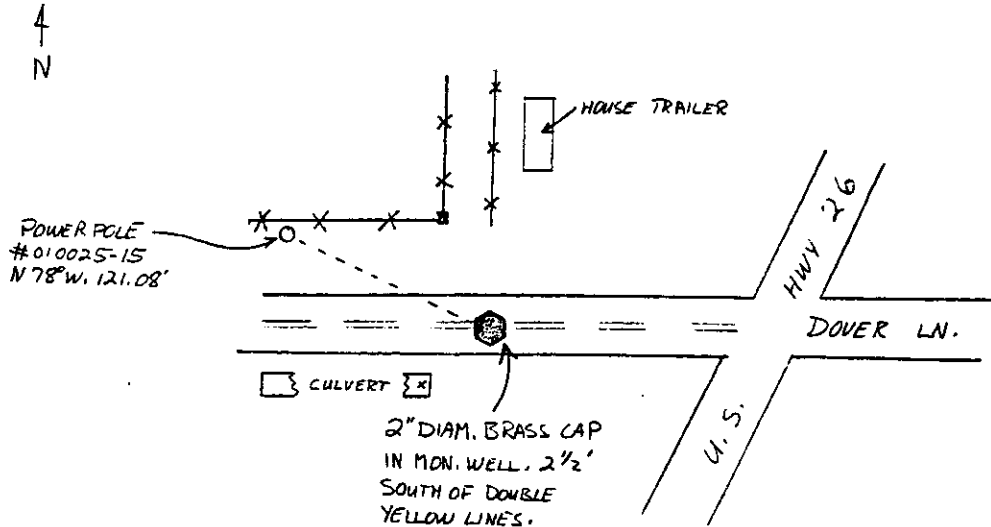
GEODETIC AND MAPPING COORDINATES

MARK: 11132240	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'59.647022"	Northing: 583323.978	0.025
Longitude: 121°10'11.792835"	Easting: 3329540.534	0.019
Convergence: +0°04'46.6236"	Ell. Height: 2427.61	0.057
Scale Factor: 1.000160996381	Ortho. Height: 2493.76	0.062
Combined Factor: 1.00004497	Geoid Height: -66.15	

MARK DATA SHEET

NAME OF MARK: 11132300 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1979 **COUNTRY:** U.S.A.
LOCATION: SECTION 23 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 950711

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

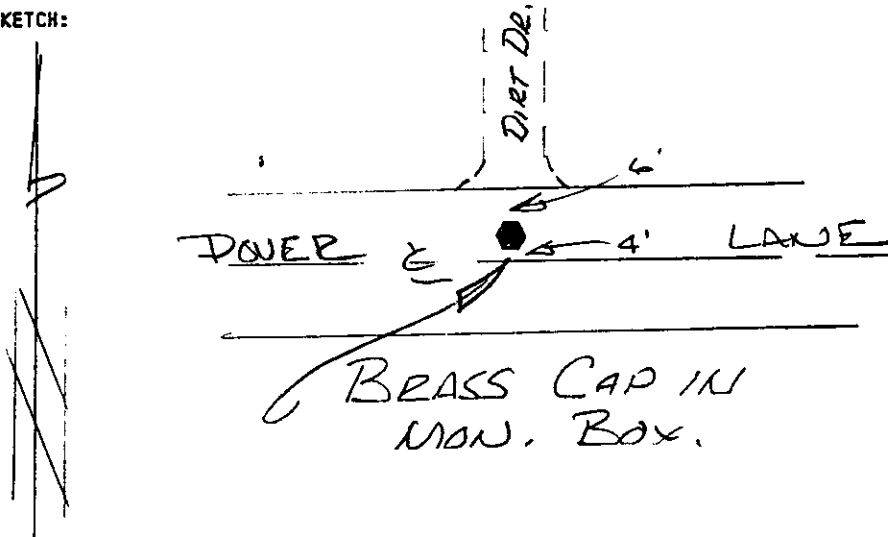
GEODETIC AND MAPPING COORDINATES

MARK: 11132300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'33.209062"	Northing: 580653.997	0.010
Longitude: 121°08'59.814628"	Easting: 3334753.724	0.010
Convergence: +0°05'37.1195"	Ell. Height: 2388.21	0.032
Scale Factor: 1.000161379089	Ortho. Height: 2454.13	0.034
Combined Factor: 1.00004724	Geoid Height: -65.92	

CONTROL MARK DATA

NAME OF MARK: 11132304 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883295

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

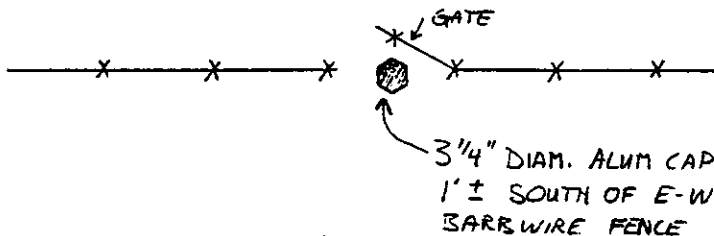
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>11132304</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°35'33.166845"	ONE SIGMA ERROR
Longitude:	121°08'23.374527"	
Northing:	580654.1949	0.024
Easting:	3337391.1068	0.029
Convergence:	+ 0°06'02.7027"	
Scale Factor:	1.000161596343	
Ellipsoid Height:	2415.8027	0.045
Orthometric Height:	2481.6963	0.055
Geoid Height:	-65.8936	

MARK DATA SHEET

NAME OF MARK:	11132340	COUNTY:	JEFFERSON
MARK SET BY:	LS 2208 GARY DEJARNATT	STATE:	OREGON
DATE OF MARK:	1990	COUNTRY:	U.S.A.
LOCATION:	SECTION 23 TOWNSHIP 11 S RANGE 13 E		
REFERENCE:	SURVEY MFP 910459		

MARK SKETCH:



DATA COMPUTED BY:	W.C. KAUFFMAN LAND SURVEYOR, LS 1031	DATE:	1995
METHOD-EQUIPMENT:	GPS-TRIMBLE 4000SSE GEODETIC	ADJUSTED WITH:	TRIMNET

HORIZONTAL DATUM:	NAD 83 (91)	VERTICAL DATUM:	NAVD 29
PROJECTION:	TRANSVERSE MERCATOR	ZONE:	CENTRAL OREGON LCS
CENTRAL MERIDIAN:	W 121° 17' 00.00"	ORIGIN NORTHING:	0.00F
LATITUDE OF ORIGIN:	N 43° 00' 00.00"	ORIGIN EASTING:	3,300,000.00F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.0001600

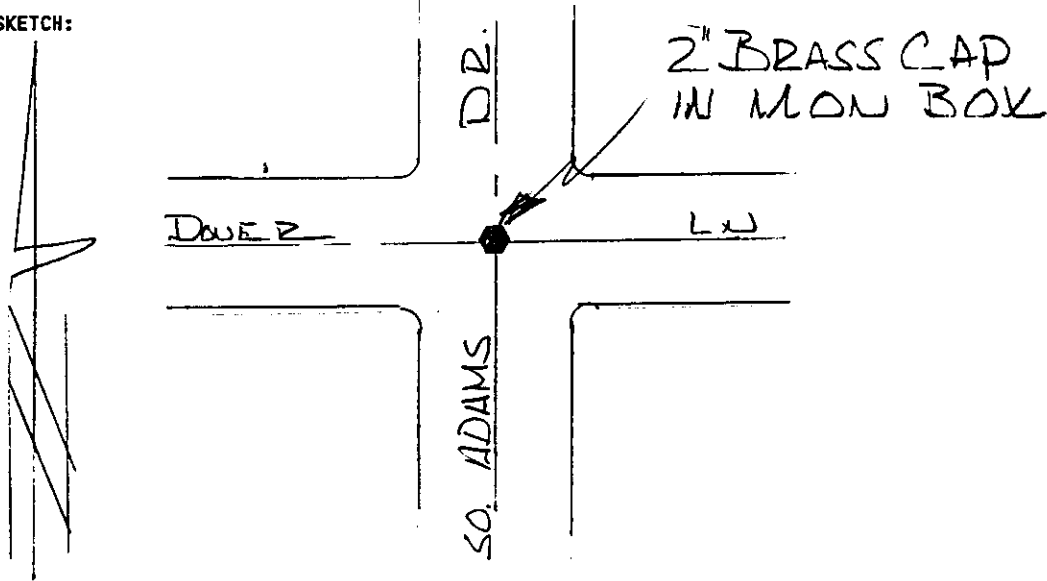
GEODETIC AND MAPPING COORDINATES

MARK:	11132340	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°35'59.287099"	Northing:	583295.421	0.016
Longitude:	121°08'59.619037"	Easting:	3334763.560	0.013
Convergence:	+0°05'37.3001"	Ell. Height:	2378.99	0.050
Scale Factor:	1.000161379867	Ortho. Height:	2444.99	0.053
Combined Factor:	1.00004768	Geoid Height:	-66.00	

CONTROL MARK DATA

NAME OF MARK: 11132400 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

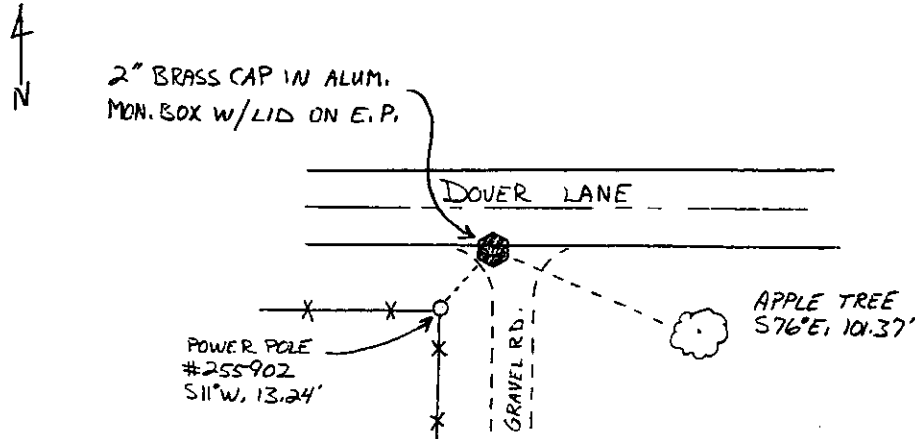
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11132400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°35'33.165571"	ONE SIGMA ERROR
Longitude:	121°07'46.891977"	
Northing:	580658.8729	0.024
Easting:	3340031.5555	0.023
Convergence:	+ 0°06'28.3157"	
Scale Factor:	1.000161829762	
Ellipsoid Height:	2391.9616	0.034
Orthometric Height:	2457.7167	0.061
Geoid Height:	-65.7551	

MARK DATA SHEET

NAME OF MARK: 11132404 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1985 **COUNTRY:** U.S.A.
LOCATION: SECTION 24 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MF# 883291

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRENNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

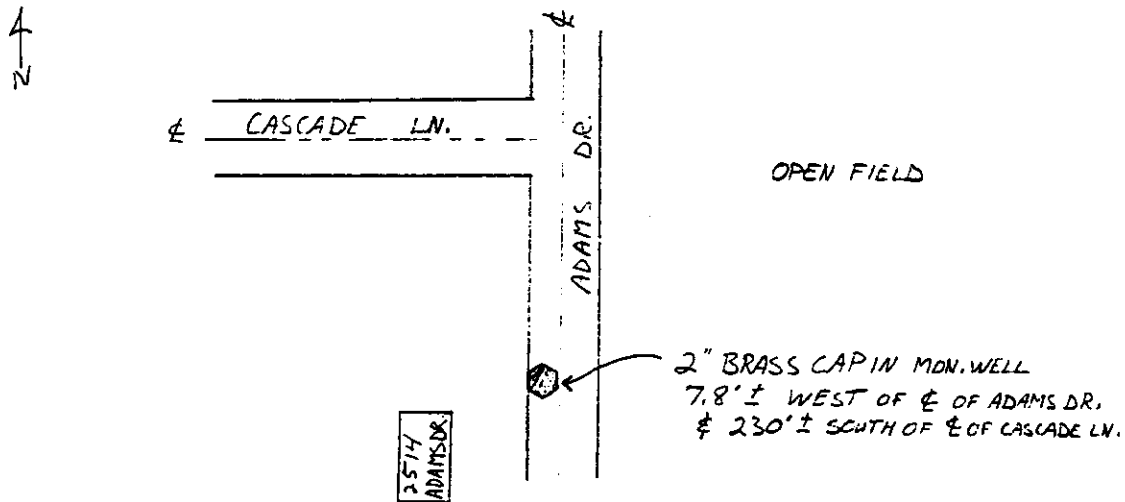
GEODETIC AND MAPPING COORDINATES

MARK: 11132404	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'33.185848"	Northing: 580666.079	0.017
Longitude: 121°07'10.290333"	Easting: 3342680.620	0.017
Convergence: +0°06'54.0124"	Ell. Height: 2390.59	0.047
Scale Factor: 1.000162079942	Ortho. Height: 2456.25	0.050
Combined Factor: 1.00004783	Geoid Height: -65.67	

MARK DATA SHEET

NAME OF MARK: 11132440 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: n/a **COUNTRY:** U.S.A.
LOCATION: SECTION 24 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 950710

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

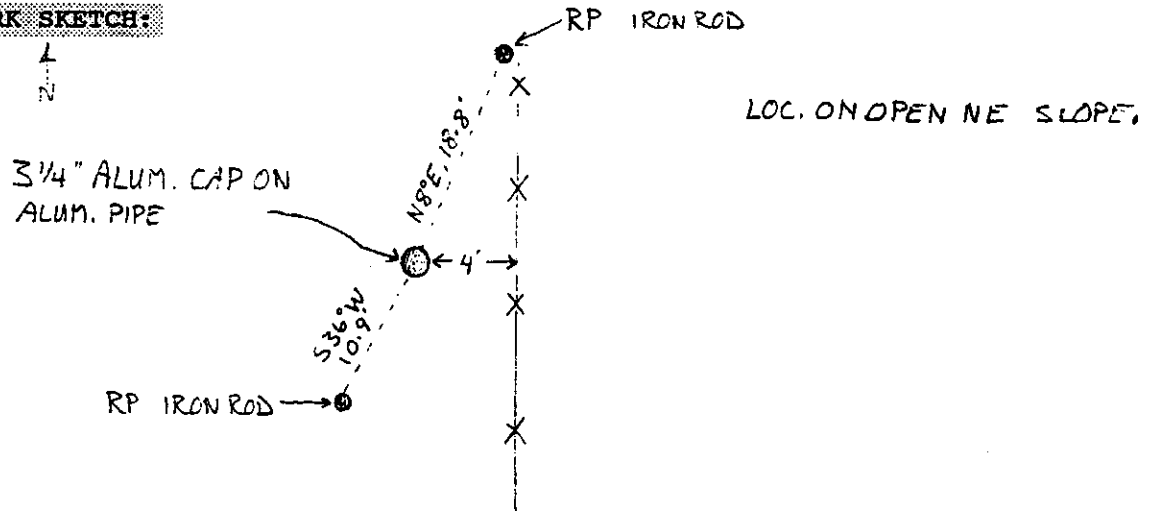
GEODETIC AND MAPPING COORDINATES

MARK: 11132440	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'59.272551"	Northing: 583303.219	0.025
Longitude: 121°07'46.793894"	Easting: 3340033.675	0.014
Convergence: +0°06'28.4344"	Ell. Height: 2422.35	0.044
Scale Factor: 1.000161629953	Ortho. Height: 2488.19	0.046
Combined Factor: 1.00004606	Geoid Height: -65.84	

MARK DATA SHEET

NAME OF MARK: 11132600 **COUNTY:** JEFFERSON
MARK SET BY: LS 1026 DAVID ARMSTRONG **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 26 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# B61481

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

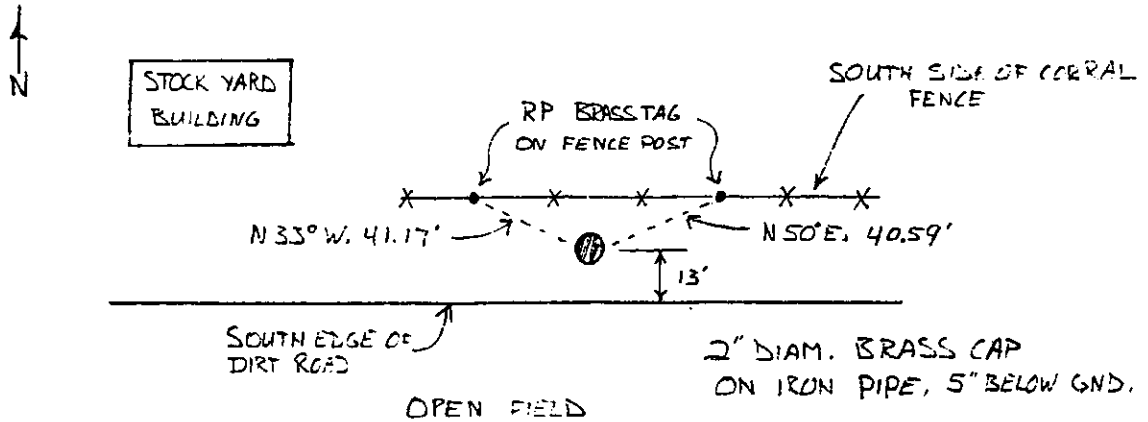
GEODETIC AND MAPPING COORDINATES

MARK: 11132600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°34'41.352183"	Northing: 575401.569	0.030
Longitude: 121°08'59.314914"	Easting: 3334798.483	0.015
Convergence: +0°05'37.3843"	Ell. Height: 2603.13	0.044
Scale Factor: 1.000161382648	Ortho. Height: 2668.90	0.050
Combined Factor: 1.00003697	Geoid Height: -65.77	

MARK DATA SHEET

NAME OF MARK: 11132640 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 26 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY N^o 950029

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

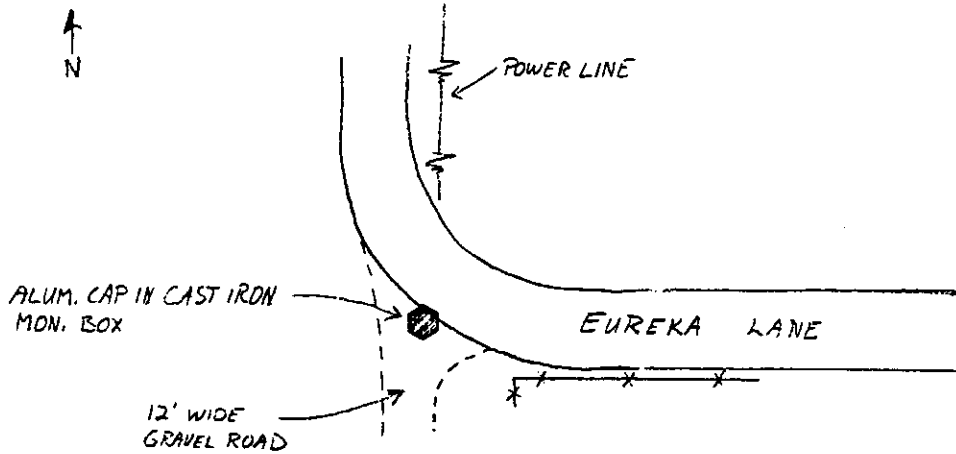
GEODETIC AND MAPPING COORDINATES

MARK: 11132640	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'07.280419"	Northing: 578027.761	0.030
Longitude: 121°08'59.564229"	Easting: 3334776.141	0.015
Convergence: +0°05'37.2523"	Ell. Height: 2452.35	0.044
Scale Factor: 1.000161380871	Ortho. Height: 2518.20	0.048
Combined Factor: 1.00004418	Geoid Height: -65.85	

MARK DATA SHEET

NAME OF MARK: 11132700 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 883310

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

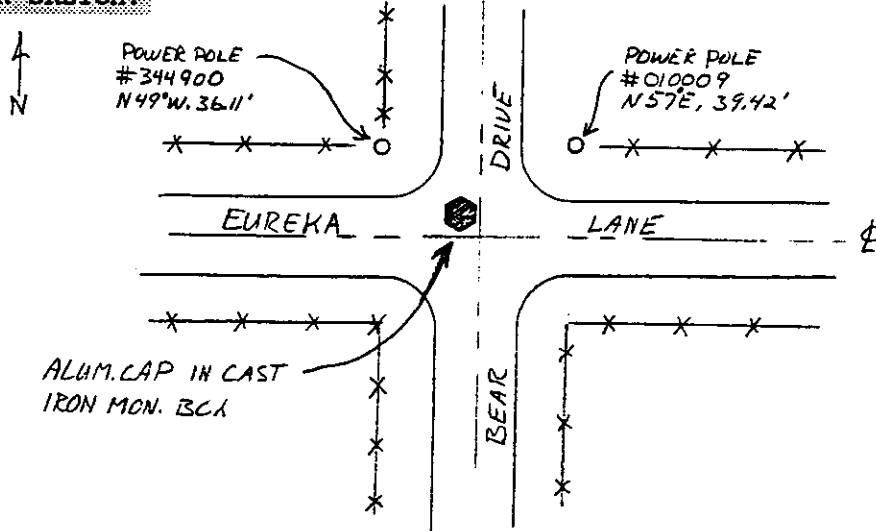
GEODETIC AND MAPPING COORDINATES

MARK: 11132700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°34'41.464356"	Northing: 575404.965	0.028
Longitude: 121°10'12.093717"	Easting: 3329529.754	0.020
Convergence: +0°04'46.3022"	Ell. Height: 2490.21	0.059
Scale Factor: 1.000160995659	Ortho. Height: 2556.15	0.063
Combined Factor: 1.00004198	Geoid Height: -65.94	

MARK DATA SHEET

NAME OF MARK: 11132704 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# B83311

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

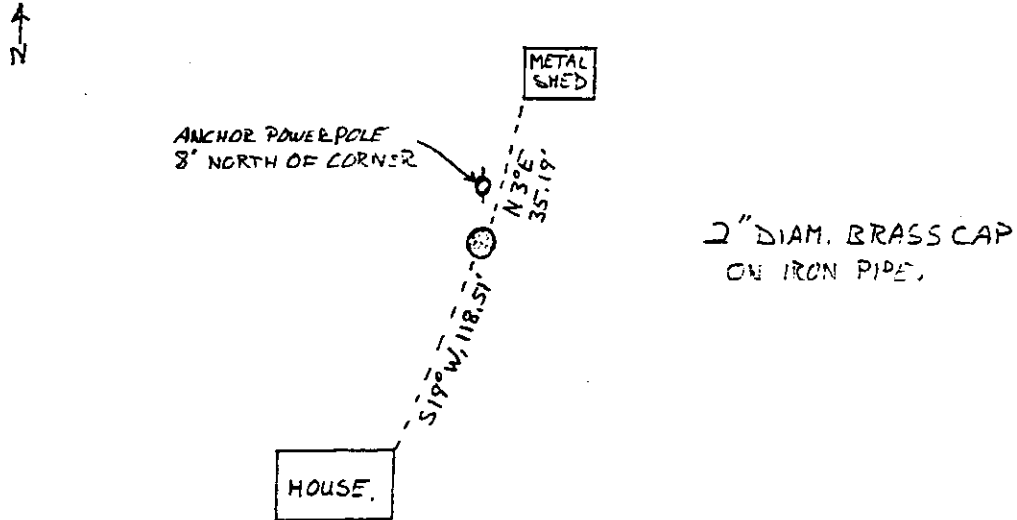
GEODETIC AND MAPPING COORDINATES

MARK: 11132704	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°34'41.418519"	Northing: 575404.142	0.020
Longitude: 121°09'35.699834"	Easting: 3332154.441	0.013
Convergence: +0°05'11.8464"	Ell. Height: 2547.51	0.035
Scale Factor: 1.000161181253	Ortho. Height: 2613.36	0.042
Combined Factor: 1.00003943	Geoid Height: -65.86	

MARK DATA SHEET

NAME OF MARK: 11132740 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 940018

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

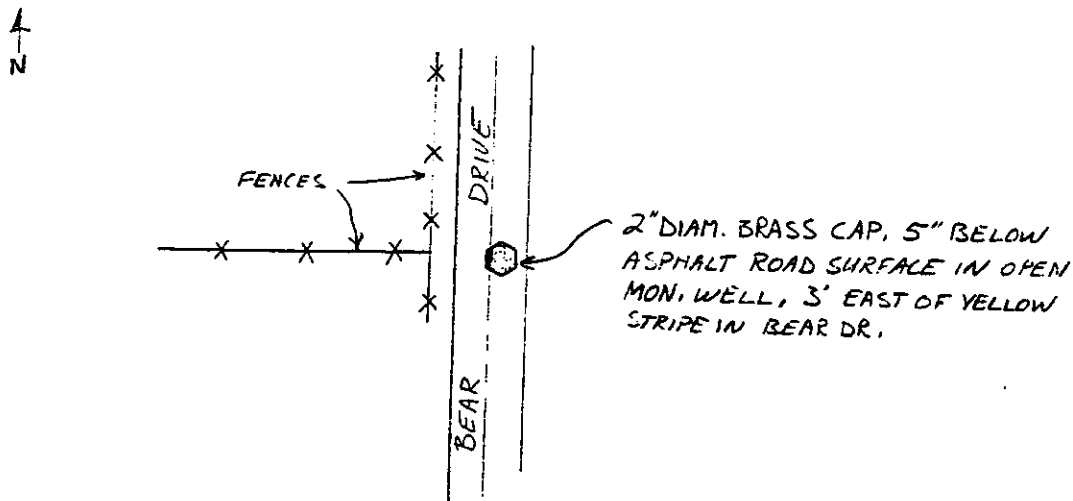
GEODETIC AND MAPPING COORDINATES

MARK: 11132740	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'07.551343"	Northing: 578047.282	0.037
Longitude: 121°10'11.931924"	Easting: 3329537.797	0.025
Convergence: +0°04'46.4525"	Ell. Height: 2511.41	0.073
Scale Factor: 1.000160996200	Ortho. Height: 2577.42	0.077
Combined Factor: 1.00004097	Geoid Height: -66.01	

MARK DATA SHEET

NAME OF MARK: 11132744 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY M/F 950028

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

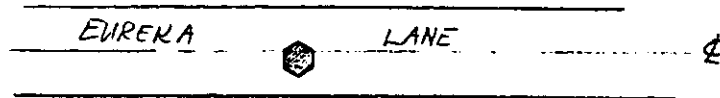
MARK: 11132744	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44° 35' 07.467524"	Northing: 578042.581	0.031
Longitude: 121° 09' 35.839864"	Easting: 3332150.315	0.020
Convergence: +0° 05' 11.7881"	Ell. Height: 2488.19	0.061
Scale Factor: 1.000161180214	Ortho. Height: 2554.12	0.065
Combined Factor: 1.00004226	Geoid Height: -65.93	

MARK DATA SHEET

NAME OF MARK: 11132800 COUNTY: JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1985 COUNTRY: U.S.A.
LOCATION: SECTION 28 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MFF 942006

MARK SKETCH:

↑
N



3/4" DIAM. ALUM. CAP IN
MON. WELL, 2' SOUTH OF ROAD &

DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRENNET

HORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

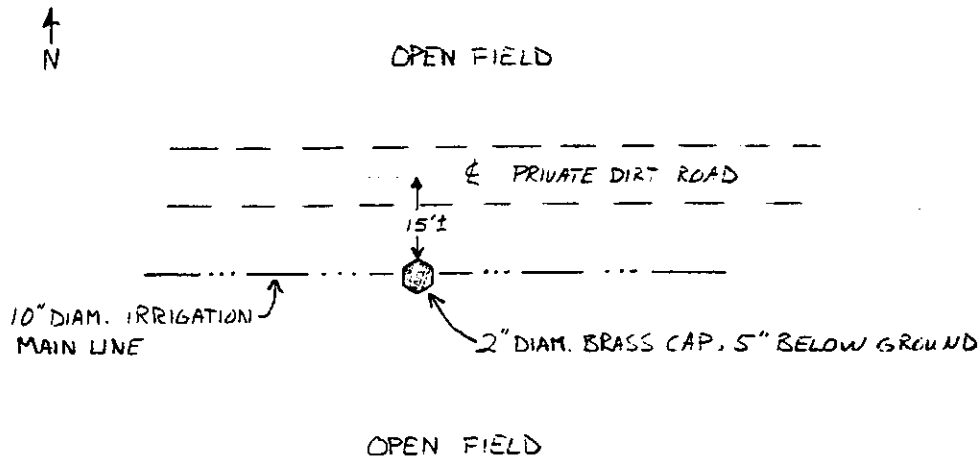
GEODETIC AND MAPPING COORDINATES

MARK: 11132800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°34'41.698463"	Northing: 575422.049	0.029
Longitude: 121°11'24.482262"	Easting: 3324289.268	0.020
Convergence: +0°03'55.4942"	Ell. Height: 2468.77	0.064
Scale Factor: 1.000160673627	Ortho. Height: 2534.86	0.066
Combined Factor: 1.00004268	Geoid Height: -66.09	

MARK DATA SHEET

NAME OF MARK: 11132804 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY MP# 950624

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

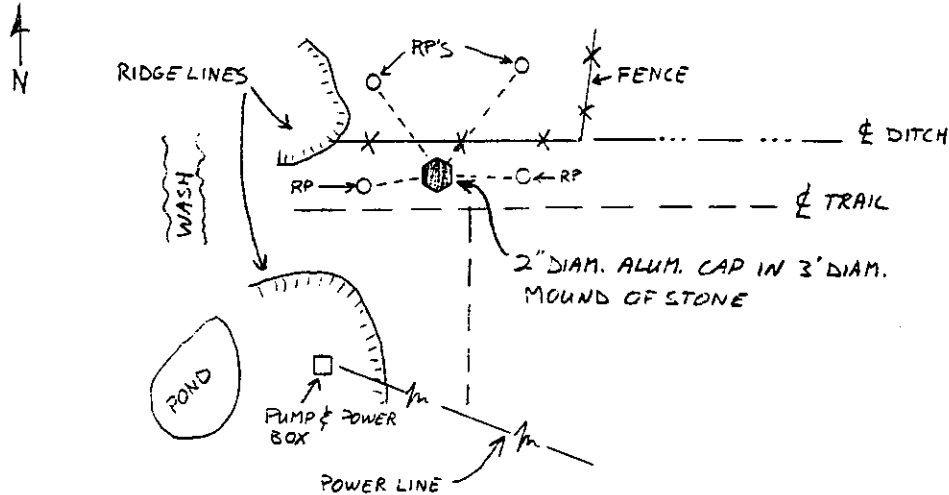
GEODETIC AND MAPPING COORDINATES

MARK: 11132804	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°34'41.582835"	Northing: 575413.490	0.029
Longitude: 121°10'48.288634"	Easting: 3326909.463	0.021
Convergence: +0°04'20.8978"	Ell. Height: 2483.32	0.065
Scale Factor: 1.000160826801	Ortho. Height: 2549.33	0.068
Combined Factor: 1.00004214	Geoid Height: -66.01	

MARK DATA SHEET

NAME OF MARK: 11132840 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 2B TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY N# 951777

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

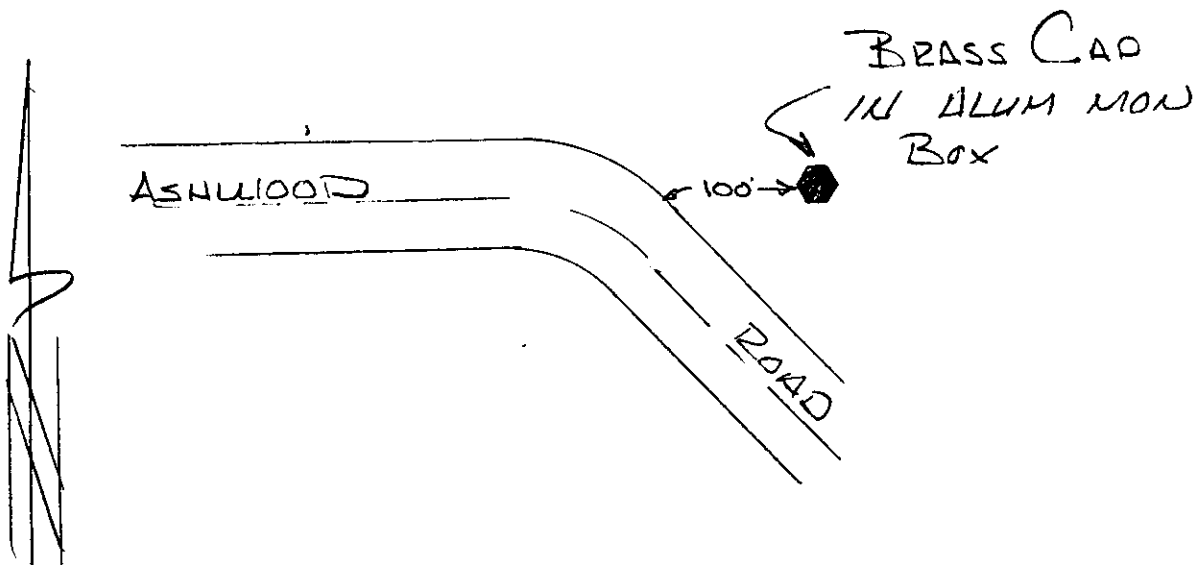
GEODETIC AND MAPPING COORDINATES

MARK: 11132840	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'07.807100"	Northing: 578066.545	0.032
Longitude: 121°11'24.455011"	Easting: 3324288.221	0.022
Convergence: +0°03'55.5436"	Ell. Height: 2440.30	0.071
Scale Factor: 1.000160673568	Ortho. Height: 2506.46	0.075
Combined Factor: 1.00004404	Geoid Height: -66.16	

CONTROL MARK DATA

NAME OF MARK: 11140500 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 11 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883293

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

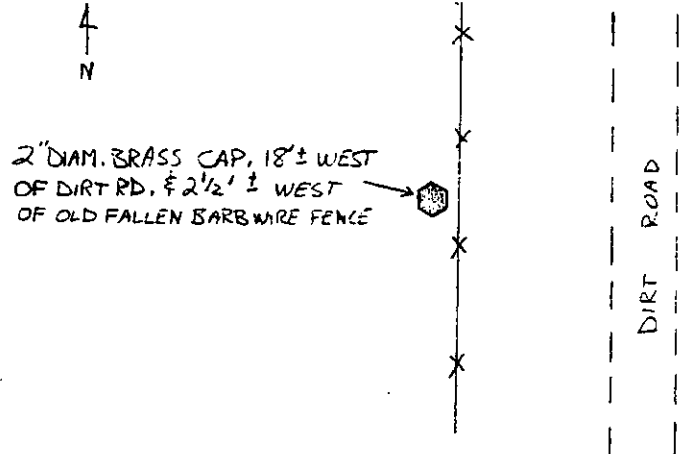
GEODETIC AND MAPPING COORDINATES

<u>MARK: 11140500</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°38'08.715842"	ONE SIGMA ERROR
Longitude:	121°05'23.868664"	
Northing:	596436.3596	0.019
Easting:	3350345.6165	0.018
Convergence:	+ 0°08'09.1009"	
Scale Factor:	1.000162894069	
Ellipsoid Height:	2422.0828	0.027
Orthometric Height:	2487.8644	0.064
Geoid Height:	-65.7816	

MARK DATA SHEET

NAME OF MARK: 11140540 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1992 **COUNTRY:** U.S.A.
LOCATION: SECTION 5 TOWNSHIP 11 S RANGE 14 E
REFERENCE: SURVEY MP# 922067

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

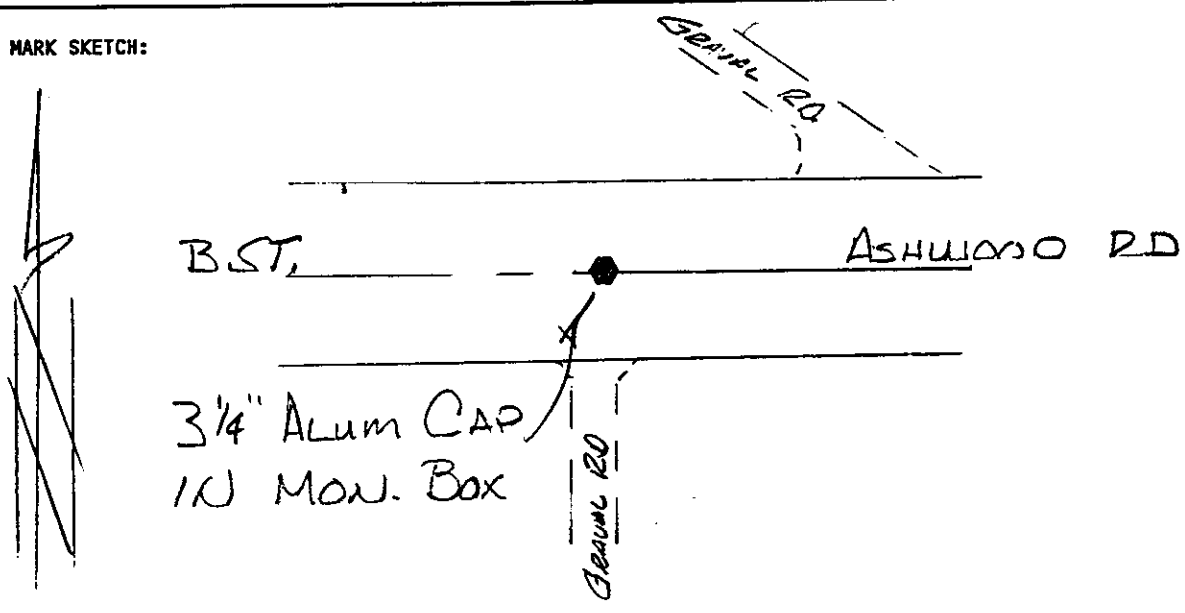
GEODETIC AND MAPPING COORDINATES

MARK: 11140540	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'34.661298"	Northing: 599064.322	0.038
Longitude: 121°05'24.042193"	Easting: 3350326.836	0.018
Convergence: +0°08'09.0413"	Ell. Height: 2507.67	0.063
Scale Factor: 1.000162891906	Ortho. Height: 2573.51	0.065
Combined Factor: 1.00004304	Geoid Height: -65.84	

CONTROL MARK DATA

NAME OF MARK: 11140600 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 11 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 892746

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

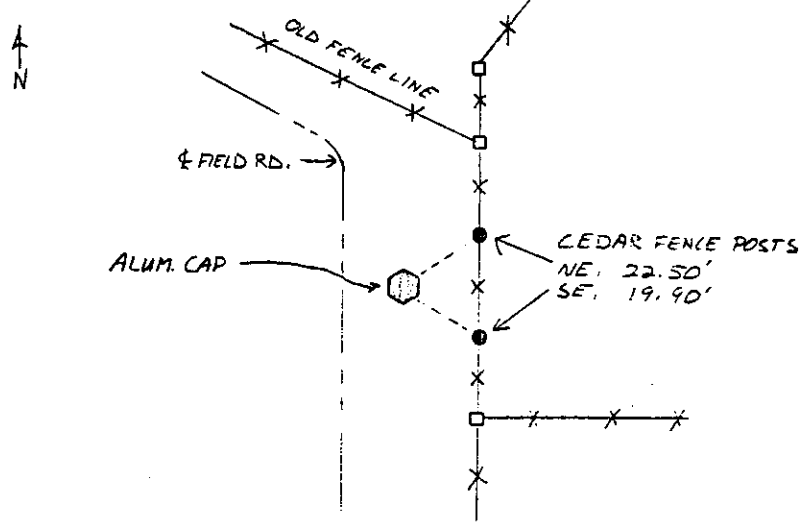
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 11140600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°38'09.121737"	ONE SIGMA ERROR
Longitude:	121°06'33.023771"	
Northing:	596466.2018	0.018
Easting:	3345344.0922	0.017
Convergence:	+ 0°07'20.5133"	
Scale Factor:	1.000162347615	
Ellipsoid Height:	2323.0117	0.025
Orthometric Height:	2388.9797	0.049
Geoid Height:	-65.968	

MARK DATA SHEET

NAME OF MARK: 11140640 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 6 TOWNSHIP 11 S RANGE 14 E
REFERENCE: SURVEY MF# 883324

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

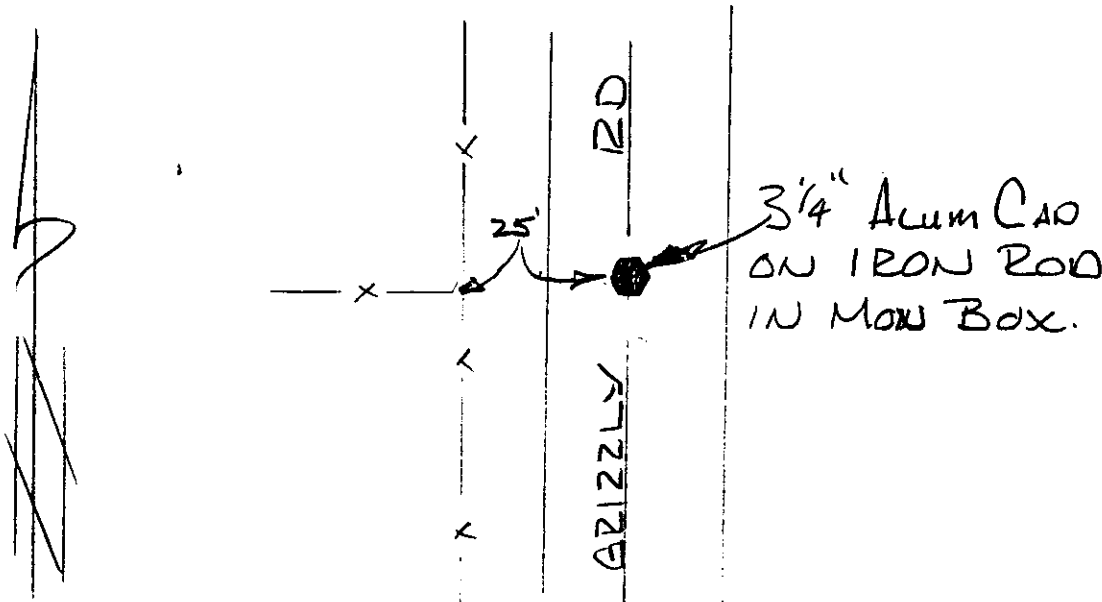
GEODETIC AND MAPPING COORDINATES

MARK: 11140640	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'35.093818"	Northing: 599096.893	0.027
Longitude: 121°06'33.012068"	Easting: 3345339.320	0.015
Convergence: +0°07'20.5777"	Ell. Height: 2286.76	0.055
Scale Factor: 1.000162347117	Ortho. Height: 2352.79	0.058
Combined Factor: 1.00005306	Geoid Height: -66.02	

CONTROL MARK DATA

NAME OF MARK: 11140700 COUNTY: JEFFERSON
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 11 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# 883305

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

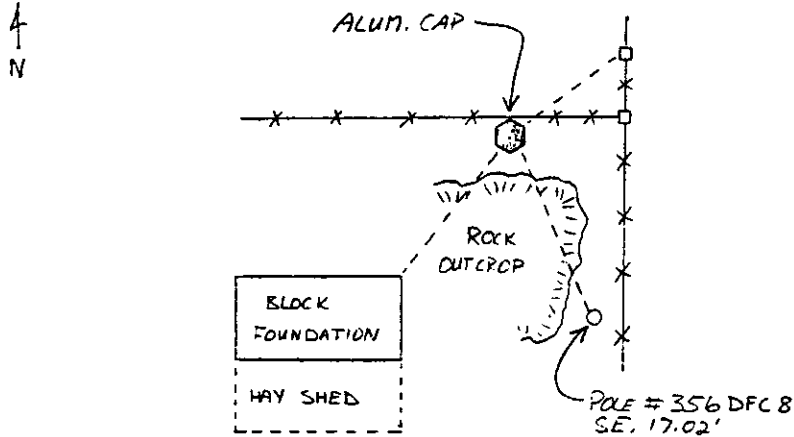
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>11140700</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°37'17.101158"	ONE SIGMA ERROR
Longitude:	121°06'33.150420"	
Northing:	591197.0739	0.017
Easting:	3345346.1821	0.016
Convergence:	+ 0°07'20.3118"	
Scale Factor:	1.000162347839	
Ellipsoid Height:	2217.7411	0.022
Orthometric Height:	2283.6056	FIXED
Geoid Height:	-65.8645	

MARK DATA SHEET

NAME OF MARK: 11140740 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 7 TOWNSHIP 11 S RANGE 14 E
REFERENCE: SURVEY NP# 883330

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

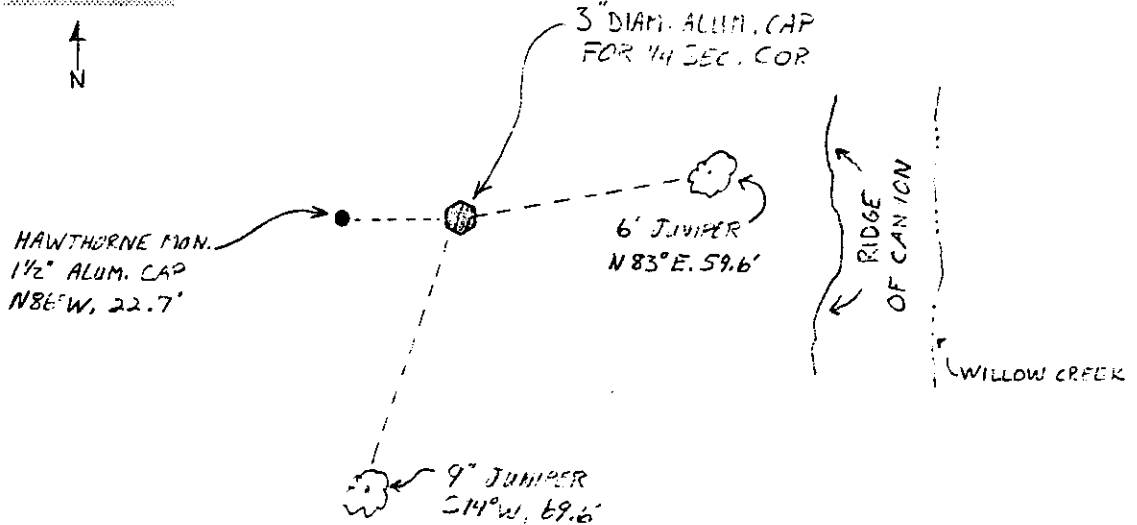
GEODETIC AND MAPPING COORDINATES

MARK: 11140740	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°37'43.162566"	Northing: 593836.813	0.036
Longitude: 121°06'33.090753"	Easting: 3345344.863	0.023
Convergence: +0°07'20.4101"	Ell. Height: 2270.17	0.069
Scale Factor: 1.000162347699	Ortho. Height: 2336.09	0.070
Combined Factor: 1.00005385	Geoid Height: -65.92	

MARK DATA SHEET

NAME OF MARK: 11141940 **COUNTY:** JEFFERSON
MARK SET BY: LS 0994 Lawrence Jones **STATE:** OREGON
DATE OF MARK: 1982 **COUNTRY:** U.S.A.
LOCATION: SECTION 19 TOWNSHIP 11 S RANGE 14 E
REFERENCE: SURVEY MF# 151331

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

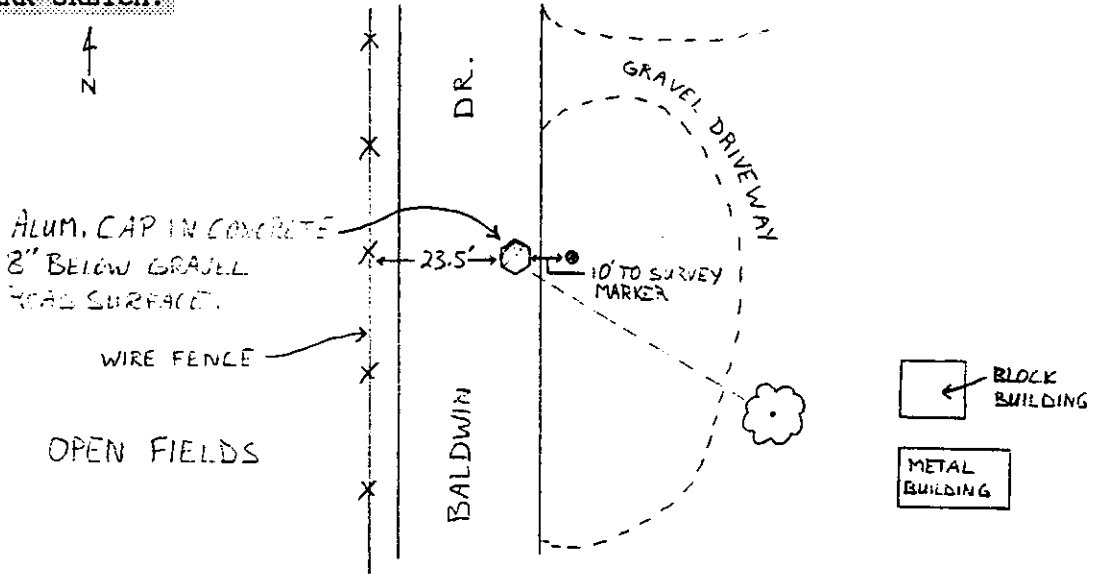
GEODETIC AND MAPPING COORDINATES

MARK: 11141940	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'59.212257"	Northing: 583307.777	0.025
Longitude: 121°06'33.403190"	Easting: 3345344.728	0.015
Convergence: +0°07'19.9659"	Ell. Height: 2334.03	0.051
Scale Factor: 1.000162347700	Ortho. Height: 2399.68	0.054
Combined Factor: 1.00005080	Geoid Height: -65.65	

MARK DATA SHEET

NAME OF MARK: 11143040 **COUNTY:** JEFFERSON
MARK SET BY: LS 1026 DAVID ARMSTRONG **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 11 S RANGE 14 E
REFERENCE: SURVEY MF# 861158

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

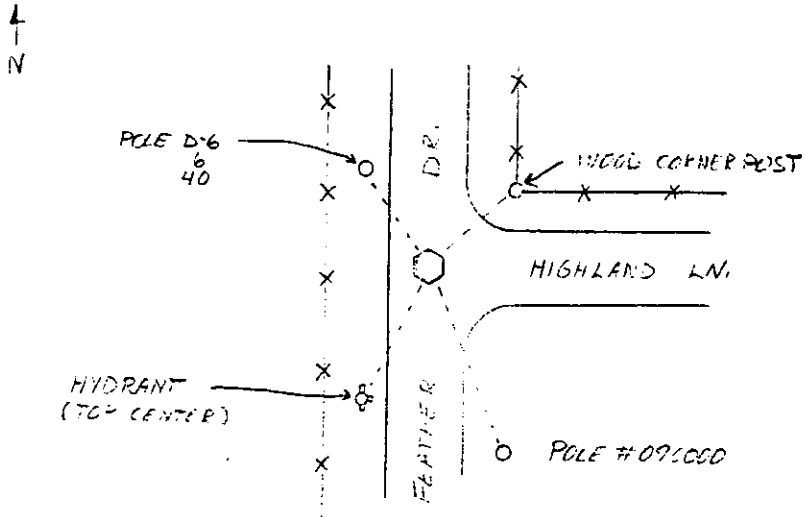
GEODETIC AND MAPPING COORDINATES

MARK: 11143040	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°35'07.136172"	Northing: 578033.094	0.013
Longitude: 121°06'33.312524"	Easting: 3345362.540	0.010
Convergence: +0°07'19.9168"	Ell. Height: 2426.47	0.034
Scale Factor: 1.000162349553	Ortho. Height: 2491.96	0.039
Combined Factor: 1.00004638	Geoid Height: -65.49	

MARK DATA SHEET

NAME OF MARK: 12130700 **COUNTY:** JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 7 TOWNSHIP 12 S RANGE 13 E
REFERENCE: SURVEY MP# 883333

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

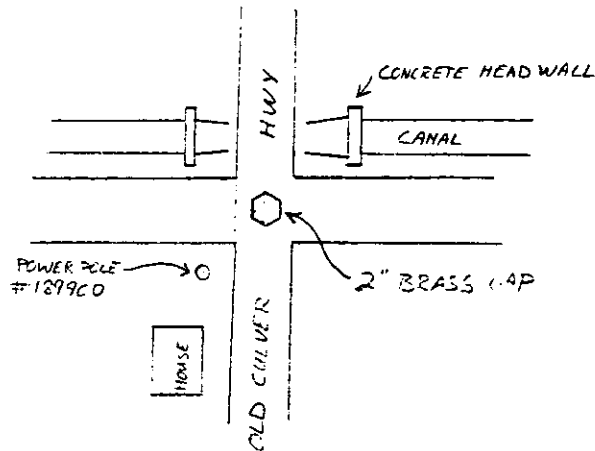
GEODETIC AND MAPPING COORDINATES

MARK: 12130700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°32'05.730346"	Northing: 559615.200	0.024
Longitude: 121°13'45.529013"	Easting: 3314088.865	0.021
Convergence: +0°02'16.3911"	Ell. Height: 2216.95	0.045
Scale Factor: 1.000160226646	Ortho. Height: 2283.04	0.047
Combined Factor: 1.00003848	Geoid Height: -66.09	

MARK DATA SHEET

NAME OF MARK: 12130800 **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 8 TOWNSHIP 12 S RANGE 13 E
REFERENCE: SURVEY NF# 951225

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

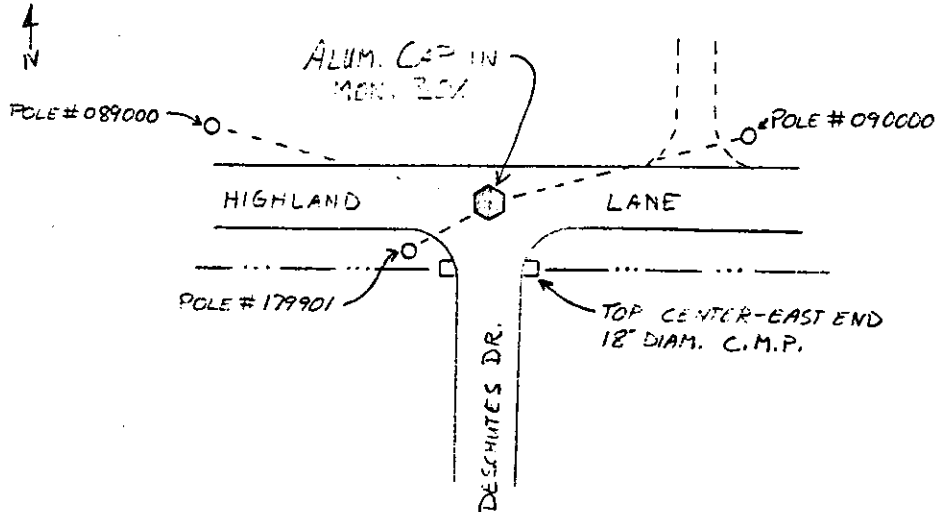
GEODETIC AND MAPPING COORDINATES

MARK: 12130800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°32'05.686982"	Northing: 559614.723	0.010
Longitude: 121°12'36.166375"	Easting: 3319113.993	0.008
Convergence: +0°03'05.0381"	Ell. Height: 2547.31	0.027
Scale Factor: 1.000160417156	Ortho. Height: 2613.30	0.037
Combined Factor: 1.00003744	Geoid Height: -66.00	

MARK DATA SHEET

NAME OF MARK: 12130900 COUNTY: JEFFERSON
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 9 TOWNSHIP 12 S RANGE 13 E
REFERENCE: SURVEY MF# 883339

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 DATE: 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC ADJUSTED WITH: TRIMNET

HOORIZONTAL DATUM: NAD 83 (91) VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.0001600

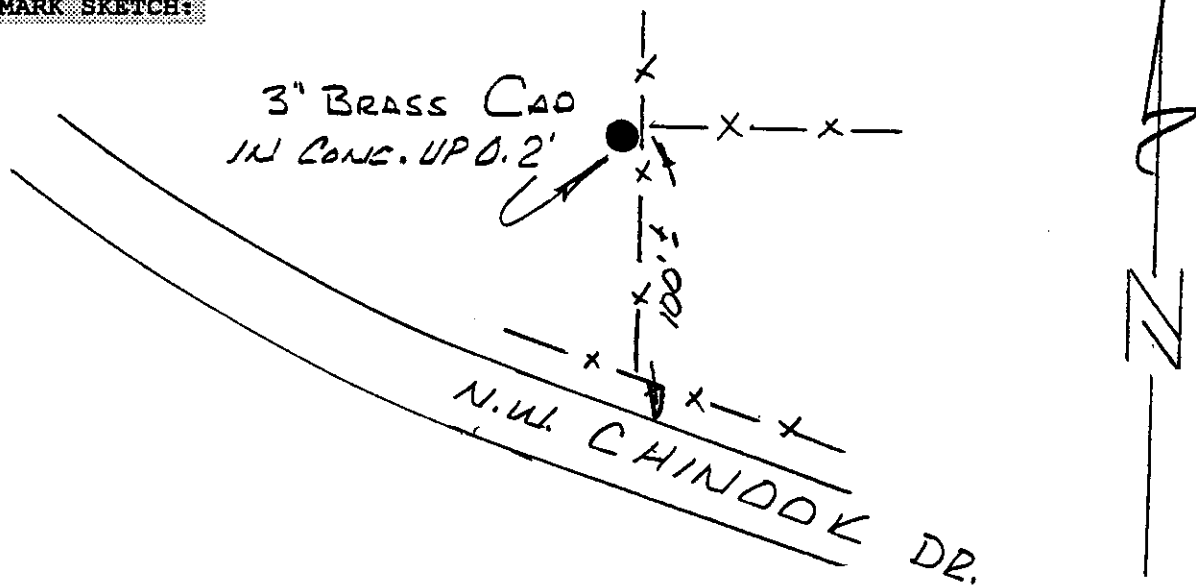
GEODETIC AND MAPPING COORDINATES

MARK:	12130900	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°32'05.450301"	Northing:	559596.087	0.008
Longitude:	121°11'23.942977"	Easting:	3324346.400	0.007
Convergence:	+0°03'55.6913"	Ell. Height:	2573.21	0.021
Scale Factor:	1.000160676807	Ortho. Height:	2639.03	0.031
Combined Factor:	1.00003784	Geoid Height:	-65.83	

MARK DATA SHEET

NAME OF MARK: 13133100 **COUNTY:** JEFFERSON
MARK SET BY: PE 5792 ARNOLD KEGEL **STATE:** OREGON
DATE OF MARK: 1973 **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 13 S RANGE 13 E
REFERENCE: CS 6487

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

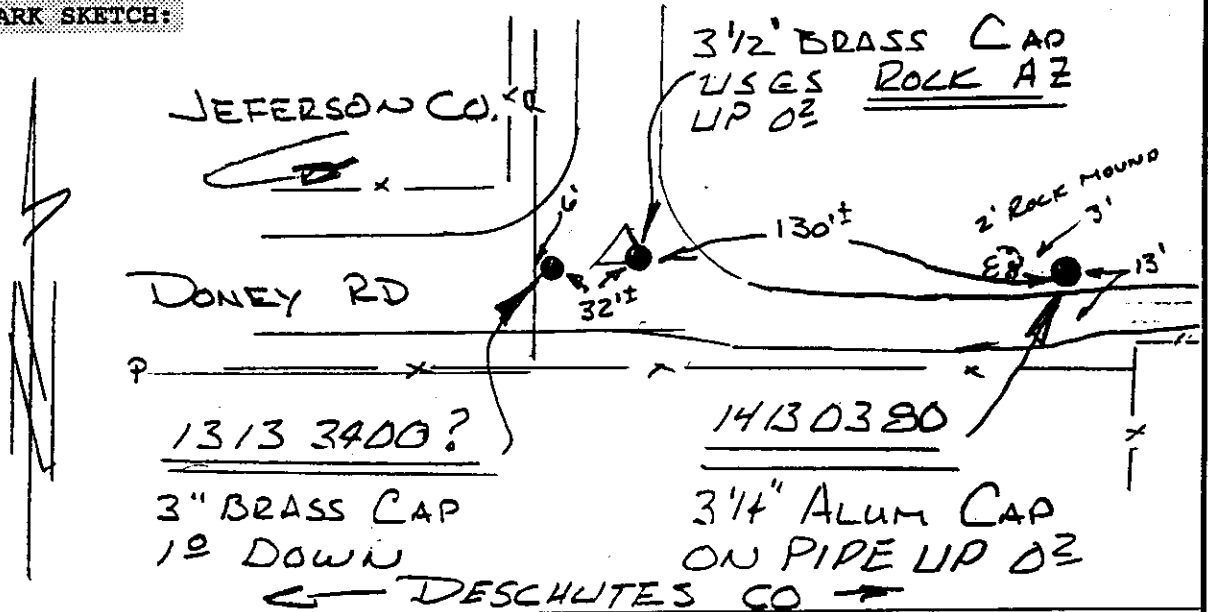
GEODETIC AND MAPPING COORDINATES

MARK: 13133100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°23'26.316179"	Northing: 507005.841	0.011
Longitude: 121°13'45.436410"	Easting: 3314130.333	0.010
Convergence: +0°02'16.1063"	Ell Height: 2670.83	0.023
Scale Factor: 1.000160227989	Ortho Height: 2736.34	0.037
Combined Factor: 1.00003258	Geoid Height: -65.51	

MARK DATA SHEET

NAME OF MARK: 13133400? **COUNTY:** JEFFERSON
MARK SET BY: N/A **STATE:** OREGON
DATE OF MARK: N/A **COUNTRY:** U.S.A.
LOCATION: SECTION 34 TOWNSHIP 13 S RANGE 13 E
REFERENCE: DGMC 17

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,380,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

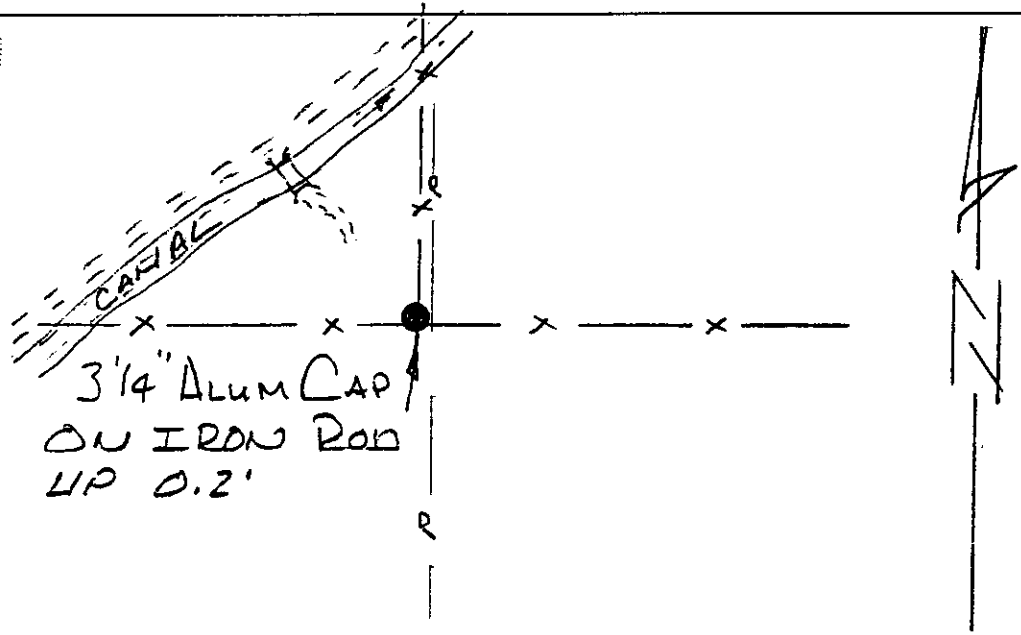
GEODETIC AND MAPPING COORDINATES

MARK: 13133400?	HORIZONTAL ORDER: SECOND	ONE SIGMA ERROR
Latitude: 44°23'26.239509"	Northing: 507014.311	0.029
Longitude: 121°10'08.067456"	Easting: 3329916.936	0.025
Convergence: +0°04'48.1661"	Ell Height: 2688.28	0.066
Scale Factor: 1.000161021984	Ortho Height: 2753.27	0.072
Combined Factor: 1.00003254	Geoid Height: -65.00	

MARK DATA SHEET

NAME OF MARK: 14130300 **COUNTY:** DESCHUTES
MARK SET BY: LS 0980 ED GRAVES **STATE:** OREGON
DATE OF MARK: 1980 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 14 S RANGE 13 E
REFERENCE: CS 00228

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

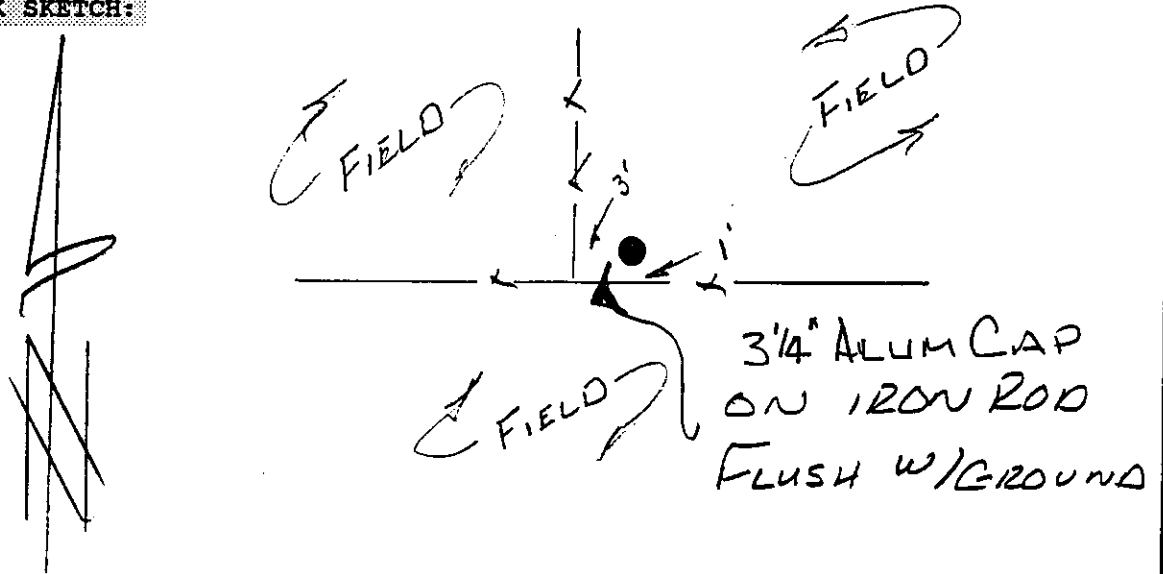
GEODETIC AND MAPPING COORDINATES

MARK: 14130300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'39.549108"	Northing: 502285.436	0.012
Longitude: 121°10'06.674514"	Easting: 3330024.728	0.011
Convergence: +0°04'49.0737"	Ell Height: 2706.79	0.027
Scale Factor: 1.000161029365	Ortho Height: 2771.82	0.039
Combined Factor: 1.00003166	Geoid Height: -65.03	

MARK DATA SHEET

NAME OF MARK: 14130304 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 793

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

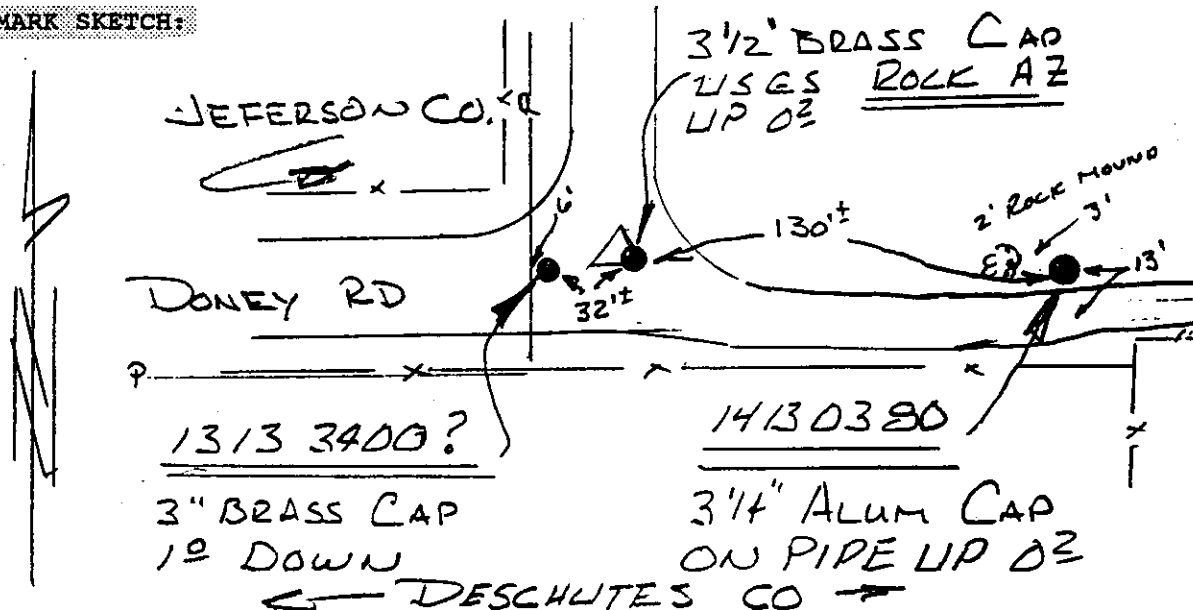
GEODETIC AND MAPPING COORDINATES

MARK: 14130304	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'39.505396"	Northing: 502284.878	0.022
Longitude: 121°09'30.269839"	Easting: 3332669.237	0.019
Convergence: +0°05'14.5345"	Ell Height: 2695.90	0.044
Scale Factor: 1.000161218679	Ortho Height: 2760.86	0.052
Combined Factor: 1.00003237	Geoid Height: -64.96	

MARK DATA SHEET

NAME OF MARK: 14130380 **COUNTY:** DESCHUTES
MARK SET BY: LS 0980 ED GRAVES **STATE:** OREGON
DATE OF MARK: 1980 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 14 S RANGE 13 E
REFERENCE: CS 00228

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

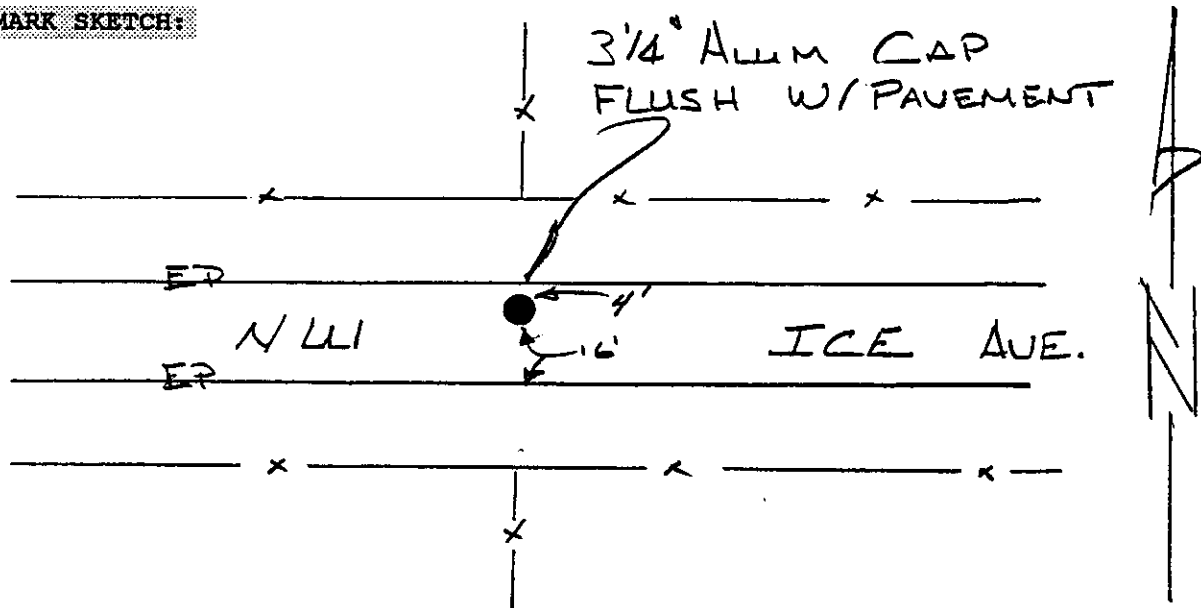
GEODETIC AND MAPPING COORDINATES

MARK: 14130380	HORIZONTAL ORDER: SECOND	ONE SIGMA ERROR
Latitude: 44°23'26.218470"	Northing: 507012.417	0.040
Longitude: 121°10'05.745368"	Easting: 3330085.582	0.032
Convergence: +0°04'49.7905"	Ell Height: 2693.65	0.102
Scale Factor: 1.000161033539	Ortho Height: 2758.64	0.106
Combined Factor: 1.00003229	Geoid Height: -64.99	

MARK DATA SHEET

NAME OF MARK: 14130400 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCCR 795

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

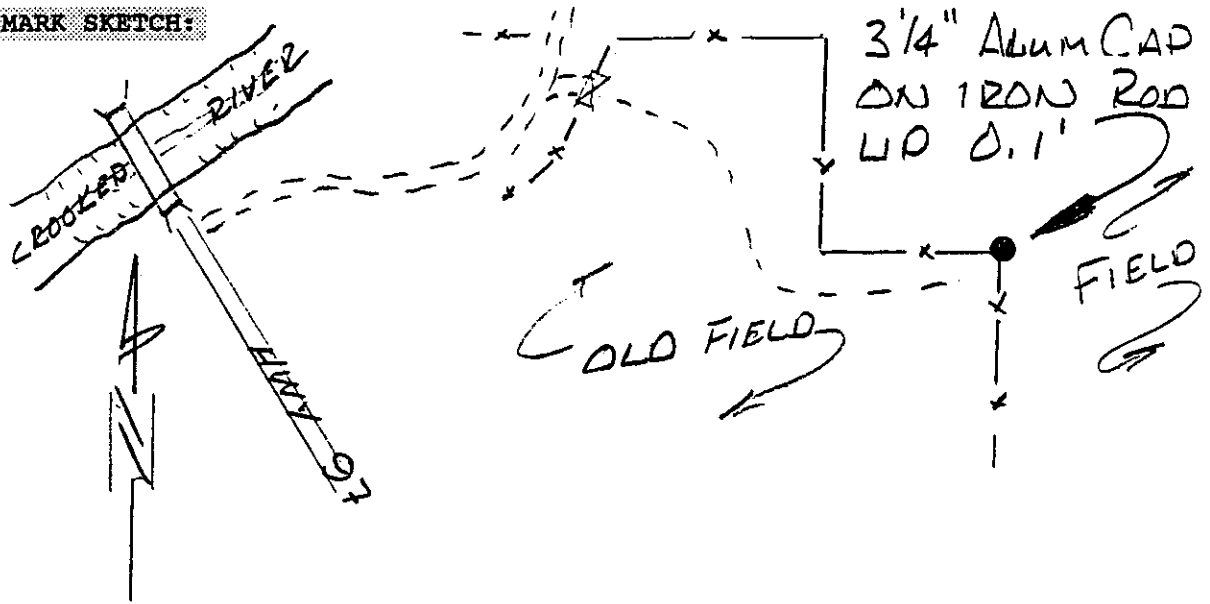
GEODETIC AND MAPPING COORDINATES

MARK: 14130400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'39.740717"	Northing: 502298.145	0.008
Longitude: 121°11'18.746115"	Easting: 3324789.291	0.008
Convergence: +0°03'58.6681"	Ell Height: 2762.68	0.018
Scale Factor: 1.000160701681	Ortho Height: 2827.88	0.033
Combined Factor: 1.00002866	Geoid Height: -65.20	

MARK DATA SHEET

NAME OF MARK: 14130480 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1972 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 781

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

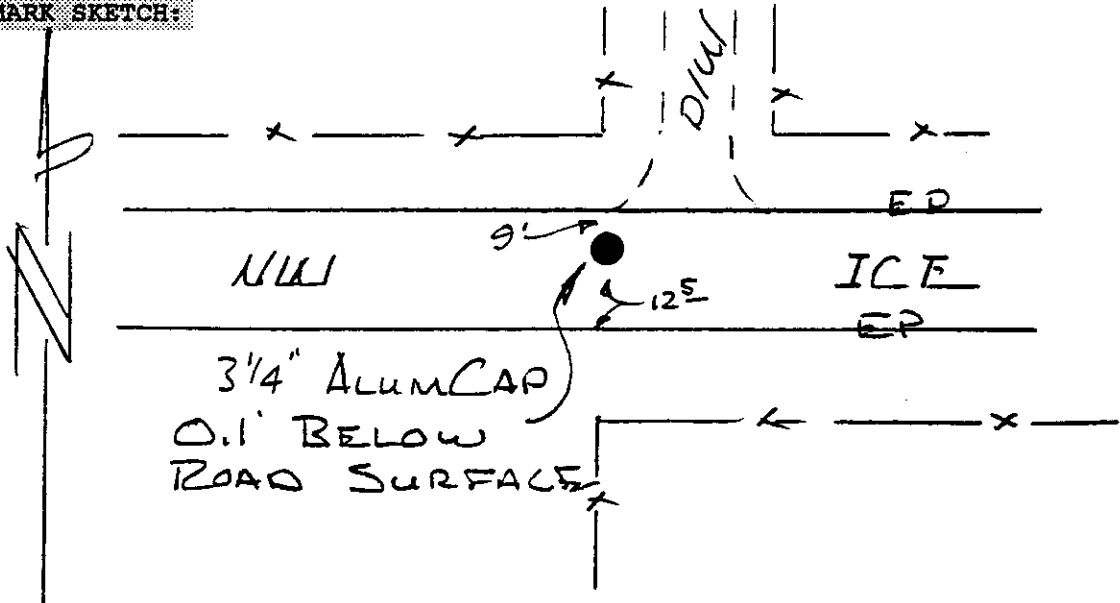
GEODETIC AND MAPPING COORDINATES

MARK: 14130480	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°23'26.233919"	Northing: 507007.190	0.010
Longitude: 121°11'18.735212"	Easting: 3324784.633	0.010
Convergence: +0°03'58.7307"	Ell Height: 2678.15	0.022
Scale Factor: 1.000160701415	Ortho Height: 2743.32	0.036
Combined Factor: 1.0000327	Geoid Height: -65.17	

MARK DATA SHEET

NAME OF MARK: 14130500 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 5 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 819

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

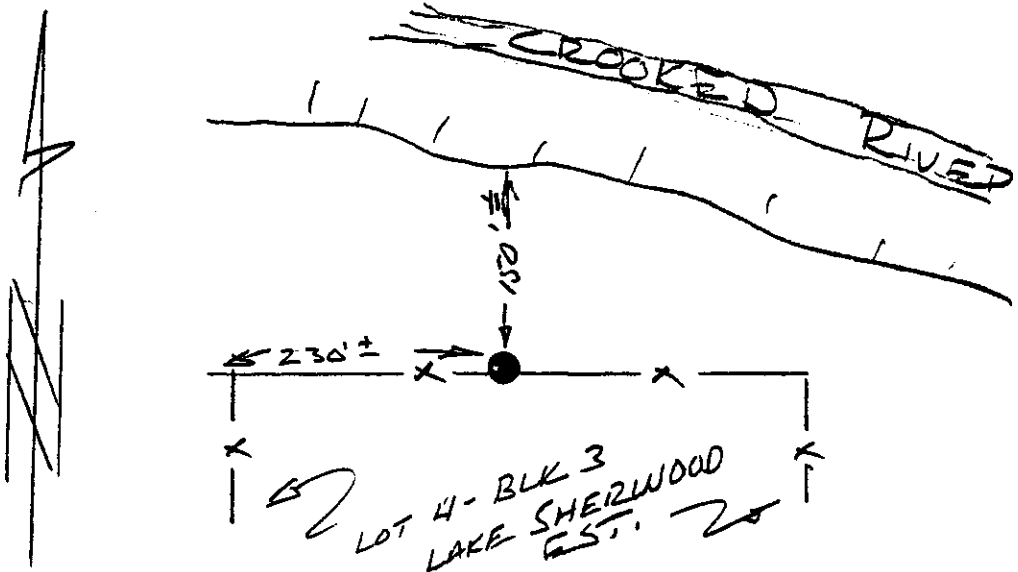
GEODETIC AND MAPPING COORDINATES

MARK: 14130500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'40.111031"	Northing: 502330.171	0.011
Longitude: 121°12'31.774307"	Easting: 3319484.358	0.010
Convergence: +0°03'07.5935"	Ell Height: 2711.46	0.024
Scale Factor: 1.000160433494	Ortho Height: 2776.81	0.037
Combined Factor: 1.00003274	Geoid Height: -65.35	

MARK DATA SHEET

NAME OF MARK: 14130580 **COUNTY:** DESCHUTES
MARK SET BY: LS 1632 RICHARD CLARK **STATE:** OREGON
DATE OF MARK: 1980 **COUNTRY:** U.S.A.
LOCATION: SECTION 5 TOWNSHIP 14 S RANGE 13 E
REFERENCE: CS 01632

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

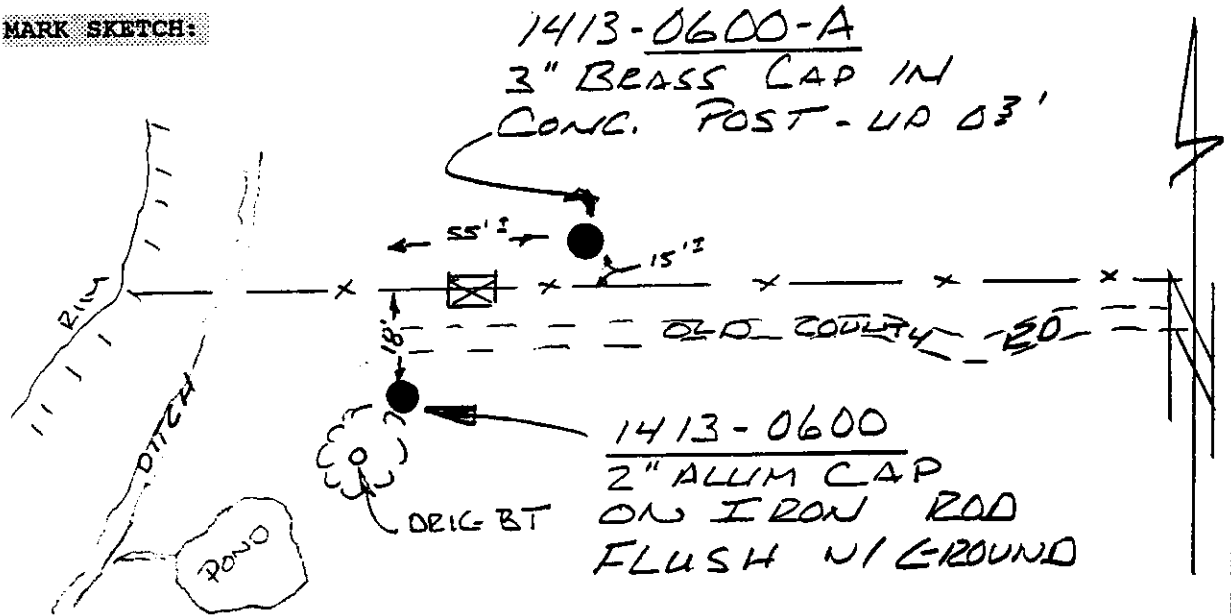
GEODETIC AND MAPPING COORDINATES

MARK: 14130580	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°23'26.303358"	Northing: 507008.742	0.011
Longitude: 121°12'31.749476"	Easting: 3319481.906	0.011
Convergence: +0°03'07.6538"	Ell Height: 2667.43	0.024
Scale Factor: 1.000160433384	Ortho Height: 2732.77	0.038
Combined Factor: 1.00003295	Geoid Height: -65.34	

MARK DATA SHEET

NAME OF MARK: 14130600 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1990 **COUNTRY:** U.S.A.
LOCATION: SECTION 6 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 1028

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

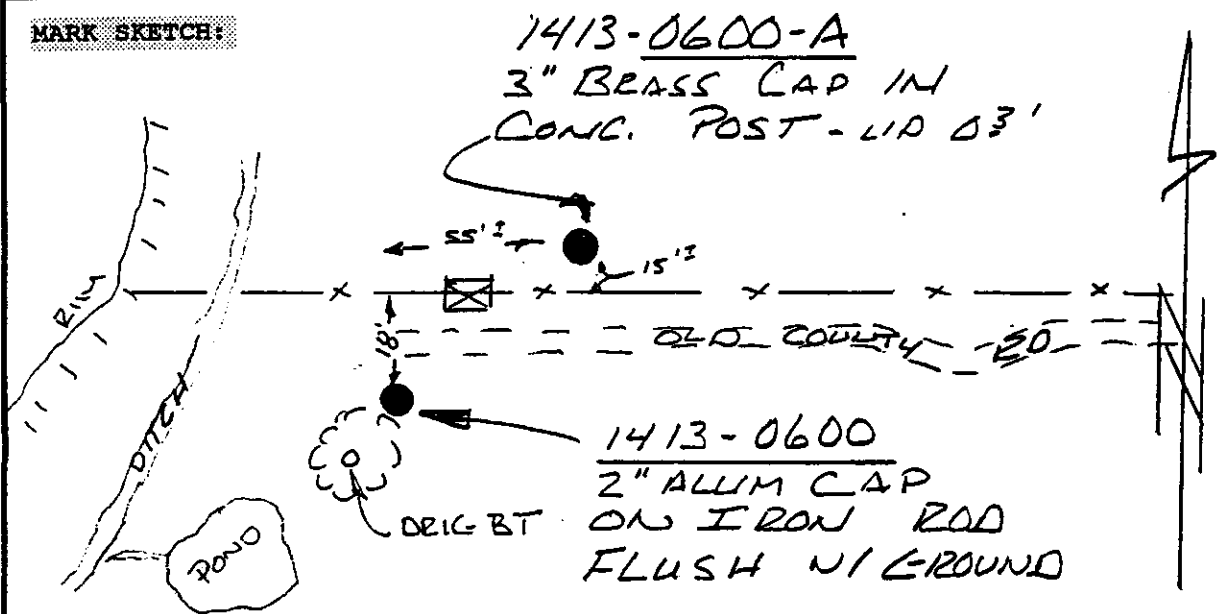
GEODETIC AND MAPPING COORDINATES

MARK: 14130600	HORIZONTAL ORDER: SECOND	ONE SIGMA ERROR
Latitude: 44°22'42.196006"	Northing: 502537.171	0.03
Longitude: 121°13'44.959153"	Easting: 3314167.950	0.03
Convergence: 0°02'16.9463"	Ell Height: 2660.20	0.03
Scale Factor: 1.000160230117	Ortho Height: 2725.72	0.04
Combined Factor: 1.00003082	Geoid Height: -65.52	

MARK DATA SHEET

NAME OF MARK: 14130600A **COUNTY:** DESCHUTES
MARK SET BY: PE 5792 ARNOLD KEGEL **STATE:** OREGON
DATE OF MARK: 1973 **COUNTRY:** U.S.A.
LOCATION: SECTION 6 TOWNSHIP 14 S RANGE 13 E
REFERENCE: CS 6487

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

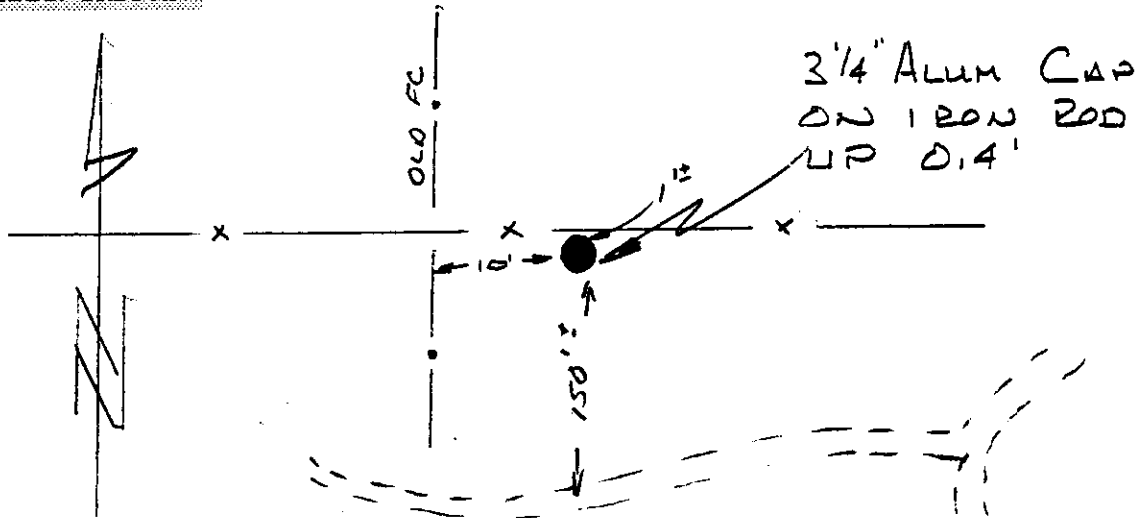
GEODETIC AND MAPPING COORDINATES

MARK: 14130600A	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'42.379280"	Northing: 502555.771	0.015
Longitude: 121°13'44.193080"	Easting: 3314223.586	0.011
Convergence: +0°02'16.9463"	Ell Height: 2660.00	0.029
Scale Factor: 1.000160231009	Ortho Height: 2725.52	0.041
Combined Factor: 1.0000331	Geoid Height: -65.52	

MARK DATA SHEET

NAME OF MARK: 14130740 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 7 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 807

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

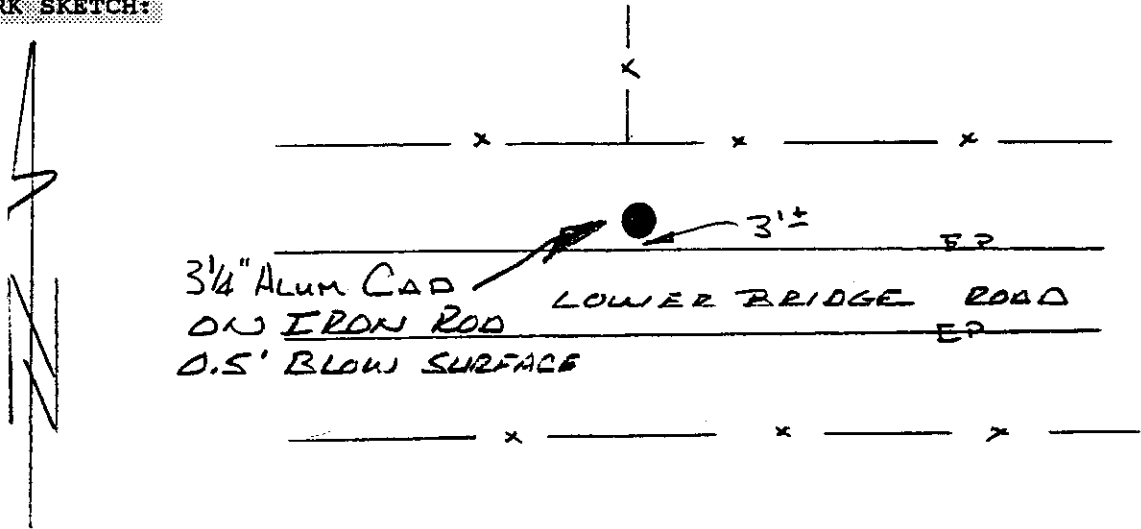
GEODETIC AND MAPPING COORDINATES

MARK: 14130740	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°22'15.966145"	Northing: 499880.488	0.021
Longitude: 121°13'45.114952"	Easting: 3314158.388	0.015
Convergence: +0°02'16.2837"	Ell Height: 2657.29	0.040
Scale Factor: 1.000160228897	Ortho Height: 2722.85	0.049
Combined Factor: 1.00003084	Geoid Height: -65.56	

MARK DATA SHEET

NAME OF MARK: 14130800 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 8 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 818

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

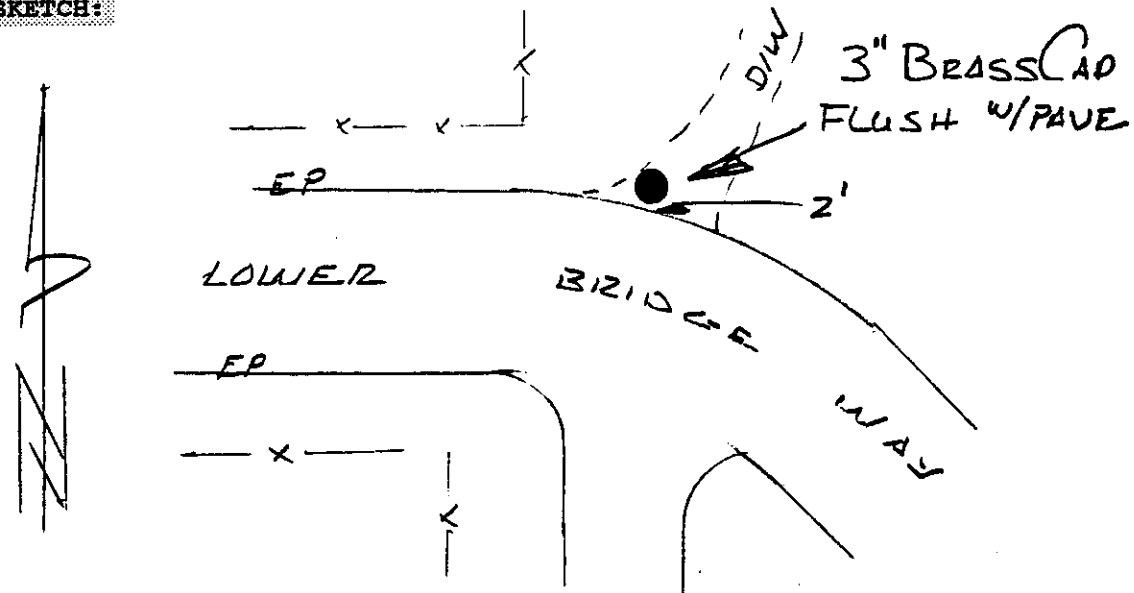
GEODETTIC AND MAPPING COORDINATES

MARK: 14130800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'48.391652"	Northing: 497091.804	0.011
Longitude: 121°12'31.848841"	Easting: 3319483.706	0.011
Convergence: +0°03'07.4933"	Ell Height: 2648.75	0.025
Scale Factor: 1.000160433467	Ortho Height: 2714.13	0.037
Combined Factor: 1.00003186	Geoid Height: -65.38	

MARK DATA SHEET

NAME OF MARK: 14130900 **COUNTY:** DESCHUTES
MARK SET BY: LS 1652 ROBERT POVEY **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 9 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 744

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

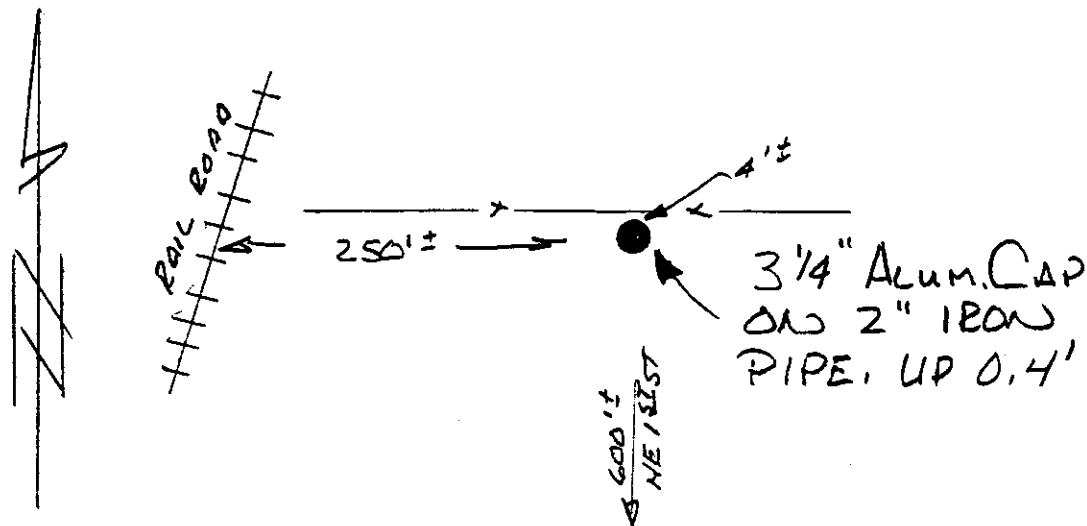
GEODETIC AND MAPPING COORDINATES

MARK: 14130900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'47.812301"	Northing: 497038.575	0.007
Longitude: 121°11'19.174920"	Easting: 3324764.219	0.007
Convergence: +0°03'58.3068"	Ell Height: 2695.97	0.015
Scale Factor: 1.000160700264	Ortho Height: 2761.20	0.032
Combined Factor: 1.00003185	Geoid Height: -65.23	

MARK DATA SHEET

NAME OF MARK: 14131000 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 10 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 800

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

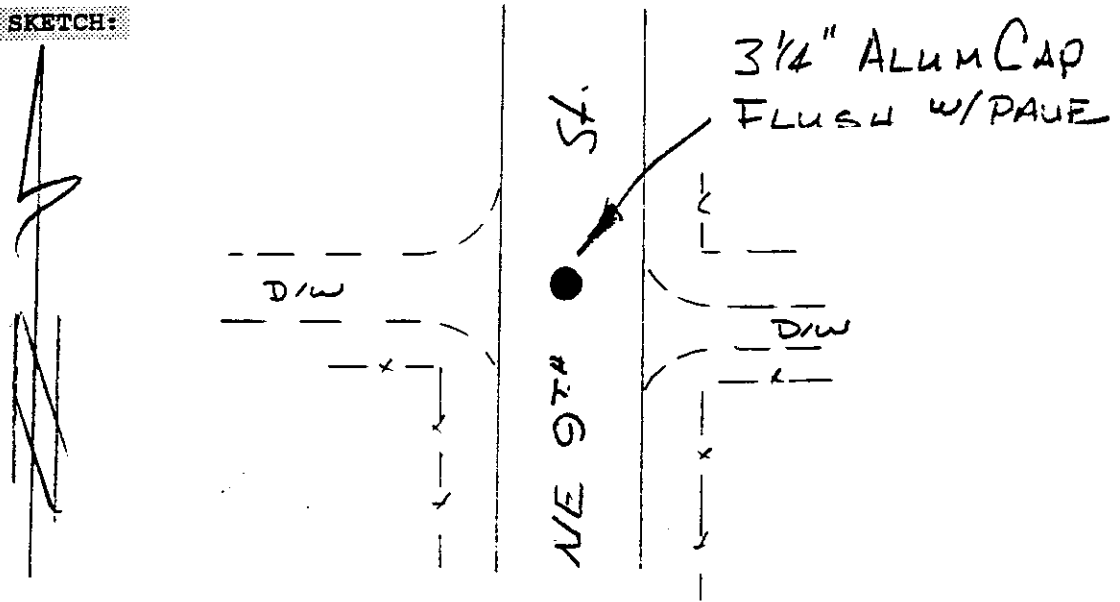
GEODETIC AND MAPPING COORDINATES

MARK: 14131000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'47.693877"	Northing: 497033.297	0.009
Longitude: 121°10'06.840372"	Easting: 3330020.036	0.009
Convergence: +0°04'48.8834"	Ell Height: 2783.52	0.019
Scale Factor: 1.000161029047	Ortho Height: 2848.62	0.034
Combined Factor: 1.00002799	Geoid Height: -65.10	

MARK DATA SHEET

NAME OF MARK: 14131004 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 10 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 814

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

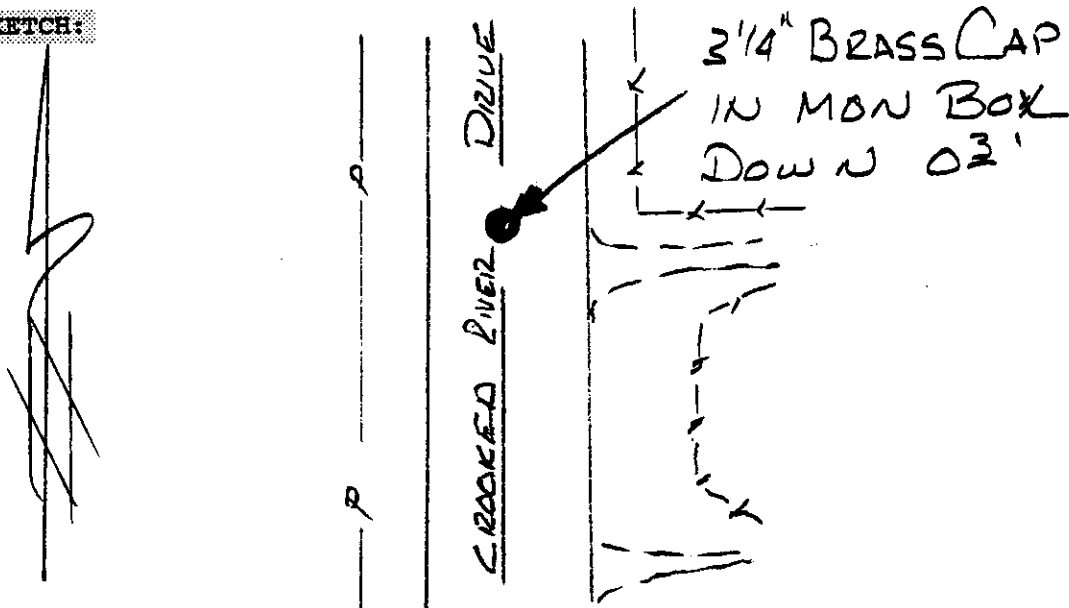
GEODETIC AND MAPPING COORDINATES

MARK: 14131004	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'47.779398"	Northing: 497045.784	0.029
Longitude: 121°09'30.818851"	Easting: 3332637.334	0.019
Convergence: +0°05'14.0701"	Ell Height: 2711.92	0.047
Scale Factor: 1.000161216304	Ortho Height: 2776.96	0.055
Combined Factor: 1.0000316	Geoid Height: -65.04	

MARK DATA SHEET

NAME OF MARK: 14131104 **COUNTY:** DESCHUTES
MARK SET BY: LS 1081 JEFFREY KERN **STATE:** OREGON
DATE OF MARK: 1991 **COUNTRY:** U.S.A.
LOCATION: SECTION 11 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 1084

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

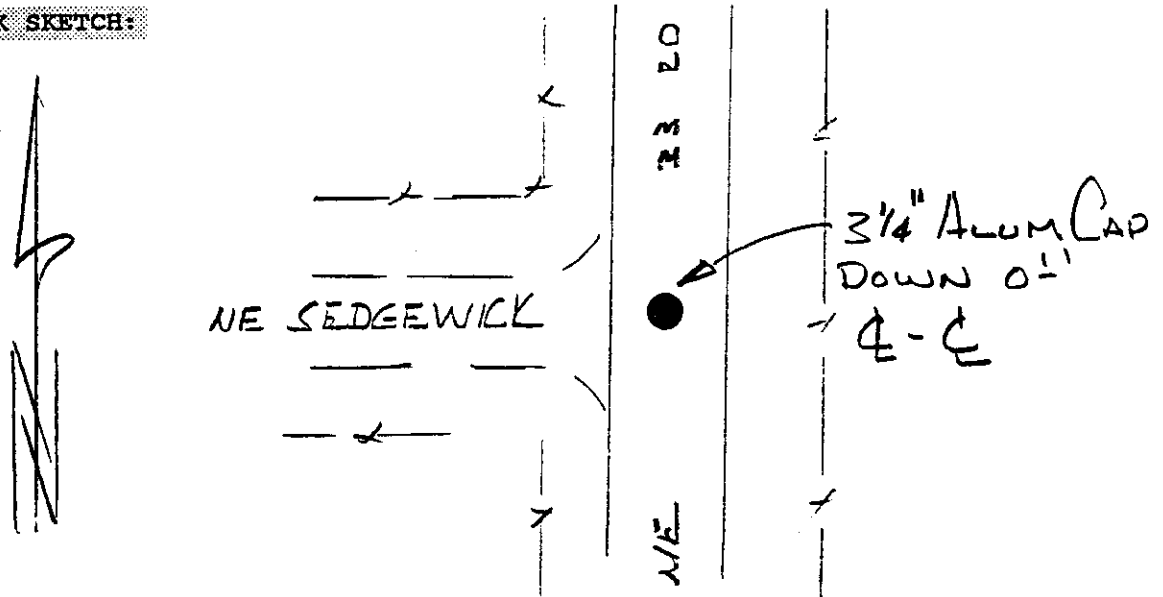
GEODETIC AND MAPPING COORDINATES

MARK: 14131104	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'47.934588"	Northing: 497070.204	0.041
Longitude: 121°08'18.064963"	Easting: 3337923.577	0.031
Convergence: +0°06'04.9404"	Ell Height: 2778.35	0.086
Scale Factor: 1.000161642221	Ortho Height: 2843.27	0.091
Combined Factor: 1.00002886	Geoid Height: -64.92	

MARK DATA SHEET

NAME OF MARK: 14131300 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 13 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 822

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

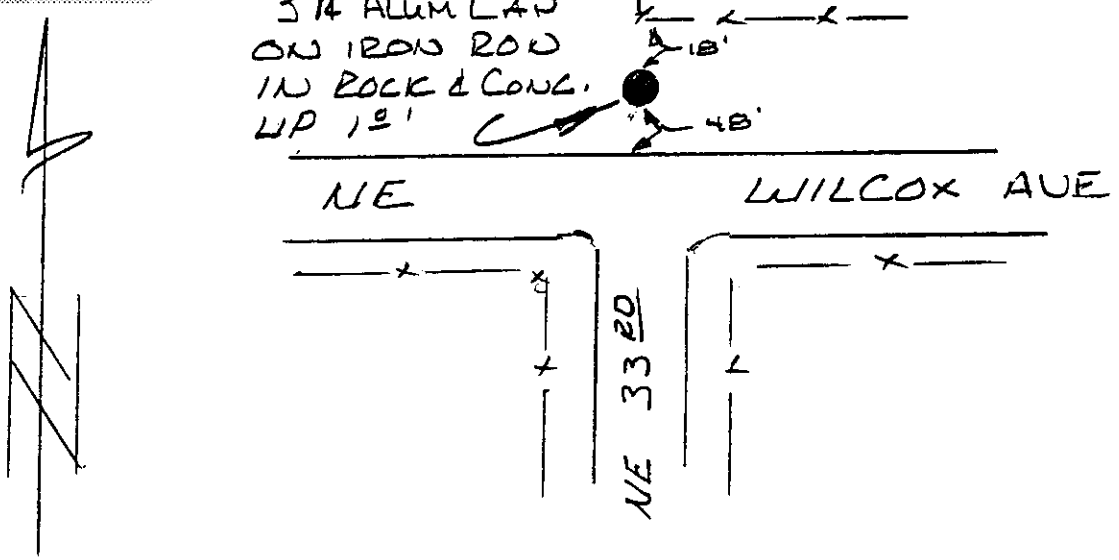
GEODETIC AND MAPPING COORDINATES

MARK: 14131300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'55.679277"	Northing: 491782.342	0.020
Longitude: 121°07'42.202194"	Easting: 3340539.357	0.016
Convergence: +0°06'29.9149"	Ell Height: 2876.30	0.042
Scale Factor: 1.000161876585	Ortho Height: 2941.21	0.051
Combined Factor: 1.00002441	Geoid Height: -64.92	

MARK DATA SHEET

NAME OF MARK: 14131340 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 13 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 805

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

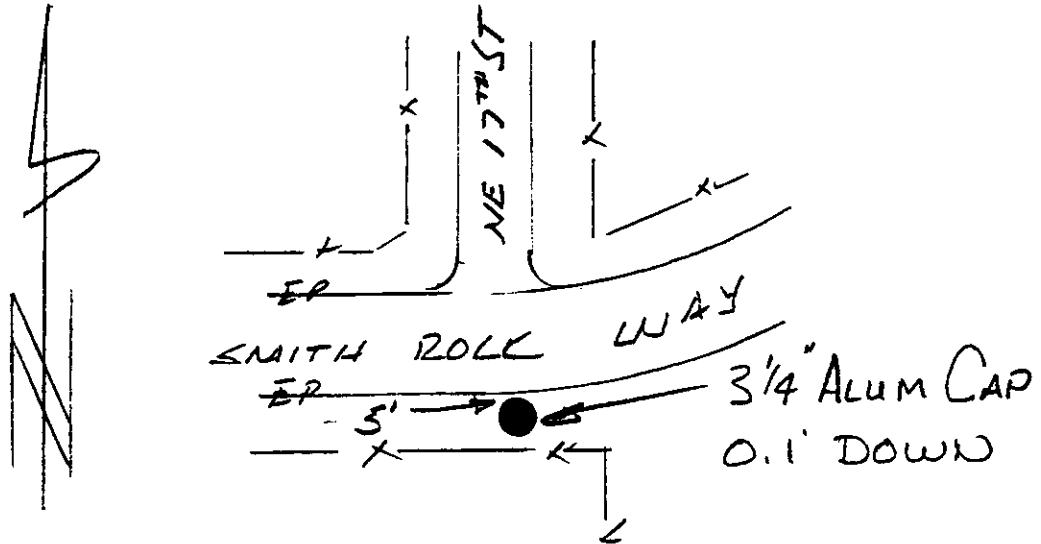
GEODETIC AND MAPPING COORDINATES

MARK: 14131340	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°21'21.760417"	Northing: 494423.959	0.025
Longitude: 121°07'42.092959"	Easting: 3340542.301	0.020
Convergence: +0°06'30.0417"	Ell Height: 2834.60	0.058
Scale Factor: 1.000161876854	Ortho Height: 2899.50	0.065
Combined Factor: 1.0000264	Geoid Height: -64.89	

MARK DATA SHEET

NAME OF MARK: 14131400 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 14 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 820

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

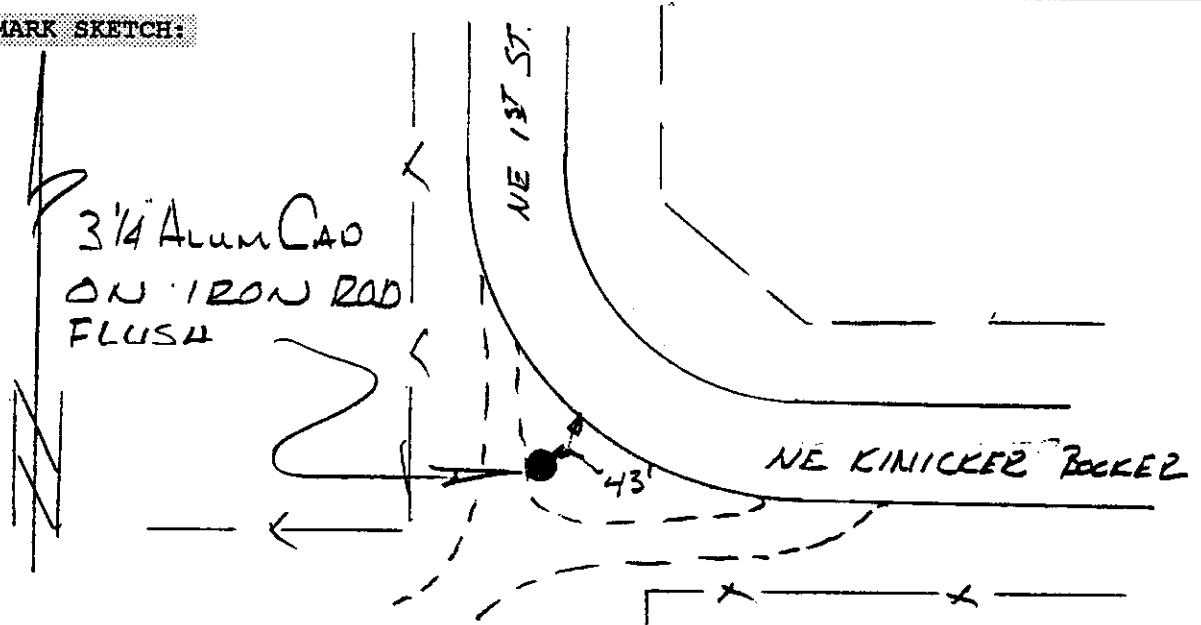
GEODETIC AND MAPPING COORDINATES

MARK: 14131400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'55.812427"	Northing: 491786.483	0.021
Longitude: 121°08'54.967749"	Easting: 3335250.915	0.014
Convergence: +0°05'39.0500"	Ell Height: 2754.45	0.040
Scale Factor: 1.000161418911	Ortho Height: 2819.47	0.049
Combined Factor: 1.00002977	Geoid Height: -65.02	

MARK DATA SHEET

NAME OF MARK: 14132200 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 02B

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

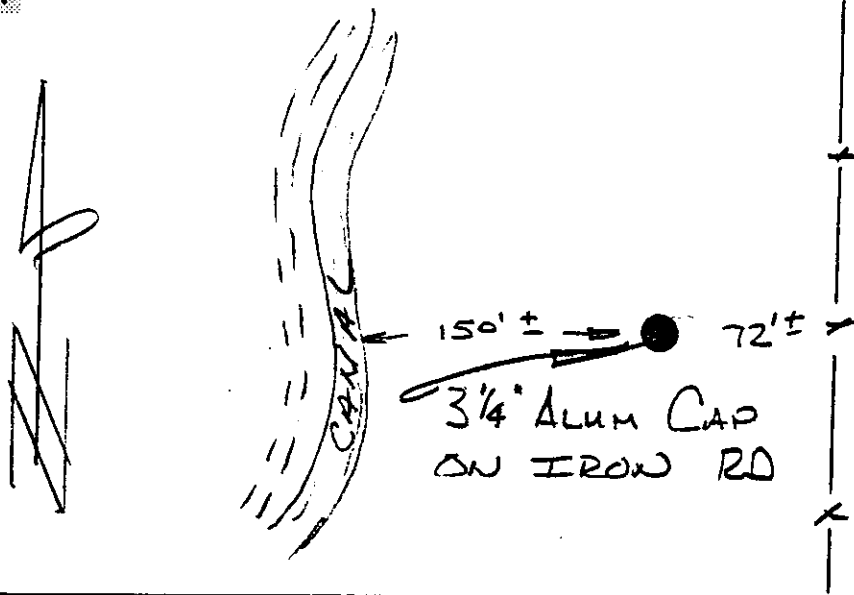
GEODETIC AND MAPPING COORDINATES

MARK: 14132200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'03.683704"	Northing: 486498.733	0.011
Longitude: 121°10'06.880561"	Easting: 3330031.865	0.010
Convergence: +0°04'48.7064"	Ell Height: 2832.51	0.023
Scale Factor: 1.000161029865	Ortho Height: 2897.65	0.036
Combined Factor: 1.00002565	Geoid Height: -65.15	

MARK DATA SHEET

NAME OF MARK: 14132300 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 23 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 018

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

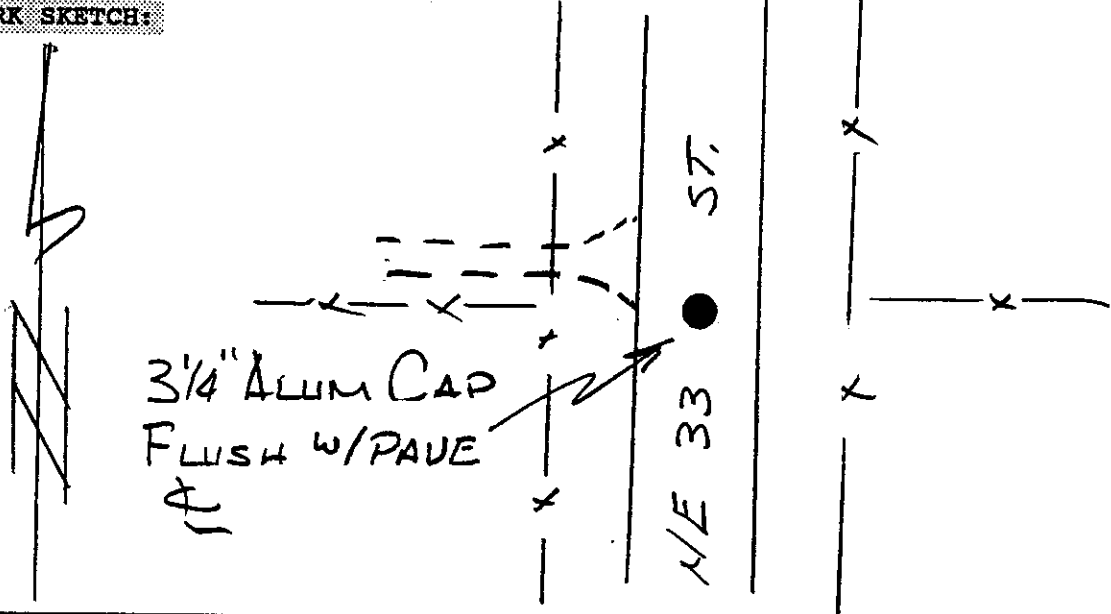
GEODETIC AND MAPPING COORDINATES

MARK: 14132300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'03.736195"	Northing: 486512.070	0.016
Longitude: 121°08'54.412364"	Easting: 3335299.958	0.012
Convergence: +0°05'39.3506"	Ell Height: 2877.51	0.037
Scale Factor: 1.000161422867	Ortho Height: 2942.55	0.046
Combined Factor: 1.0000239	Geoid Height: -65.05	

MARK DATA SHEET

NAME OF MARK: 14132400 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 24 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCCR 016

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400GSSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

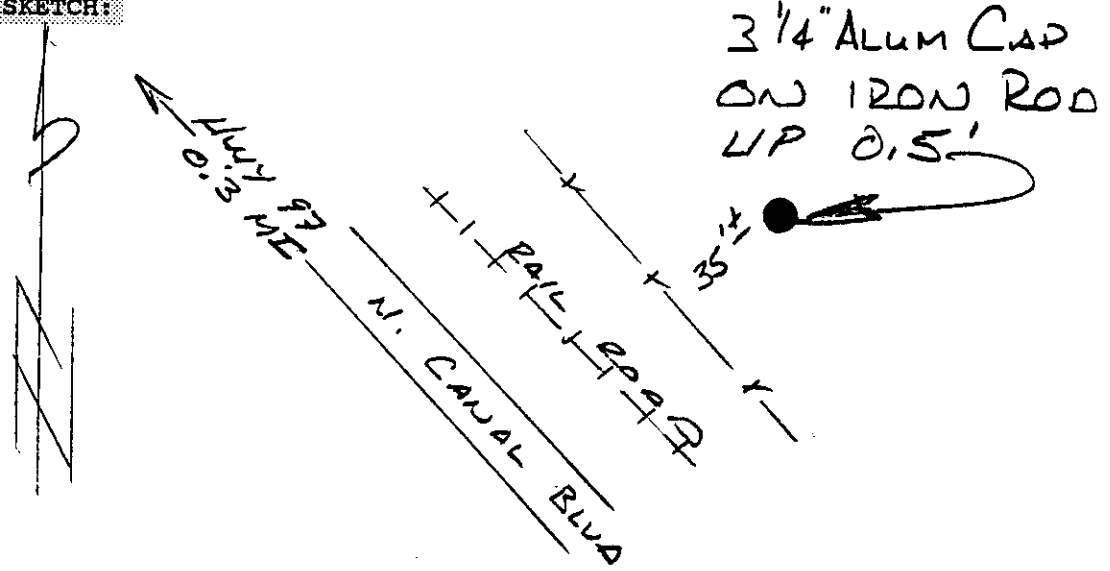
GEODETIC AND MAPPING COORDINATES

MARK: 14132400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'04.181252"	Northing: 486566.432	0.019
Longitude: 121°07'42.152907"	Easting: 3340552.799	0.014
Convergence: +0°06'29.8497"	Ell Height: 2873.19	0.041
Scale Factor: 1.000161877836	Ortho Height: 2938.14	0.049
Combined Factor: 1.00002456	Geoid Height: -64.95	

MARK DATA SHEET

NAME OF MARK: 14132700 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 027

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

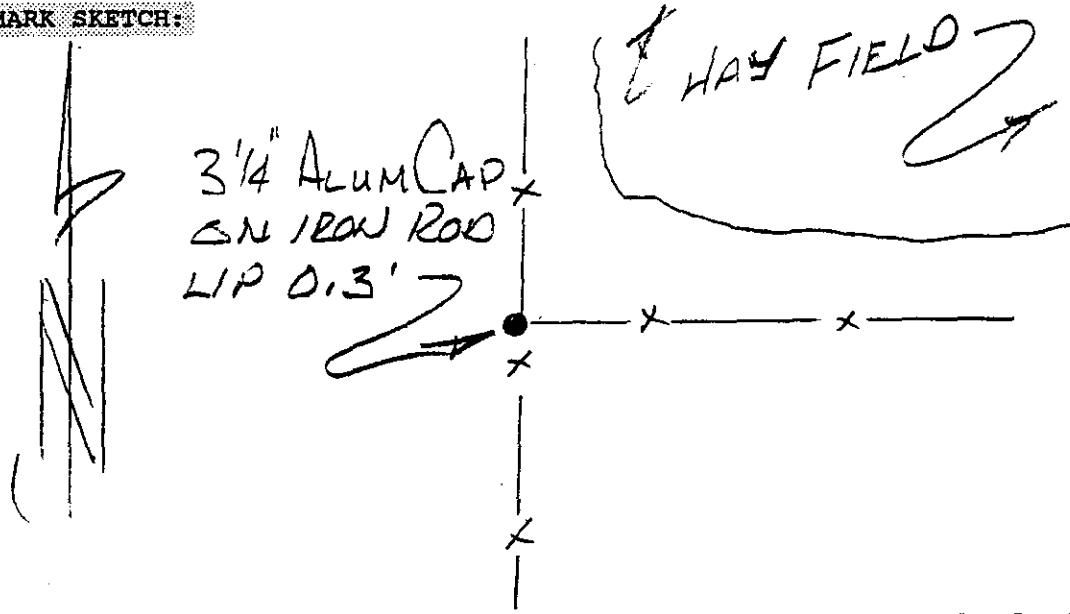
GEODETIC AND MAPPING COORDINATES

MARK: 14132700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°19'11.589739"	Northing: 481222.456	0.012
Longitude: 121°10'07.027528"	Easting: 3330028.563	0.011
Convergence: +0°04'48.5291"	Ell Height: 2871.46	FIXED
Scale Factor: 1.000161029642	Ortho Height: 2936.61	0.027
Combined Factor: 1.00002379	Geoid Height: -65.15	

MARK DATA SHEET

NAME OF MARK: 14132800 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 042

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

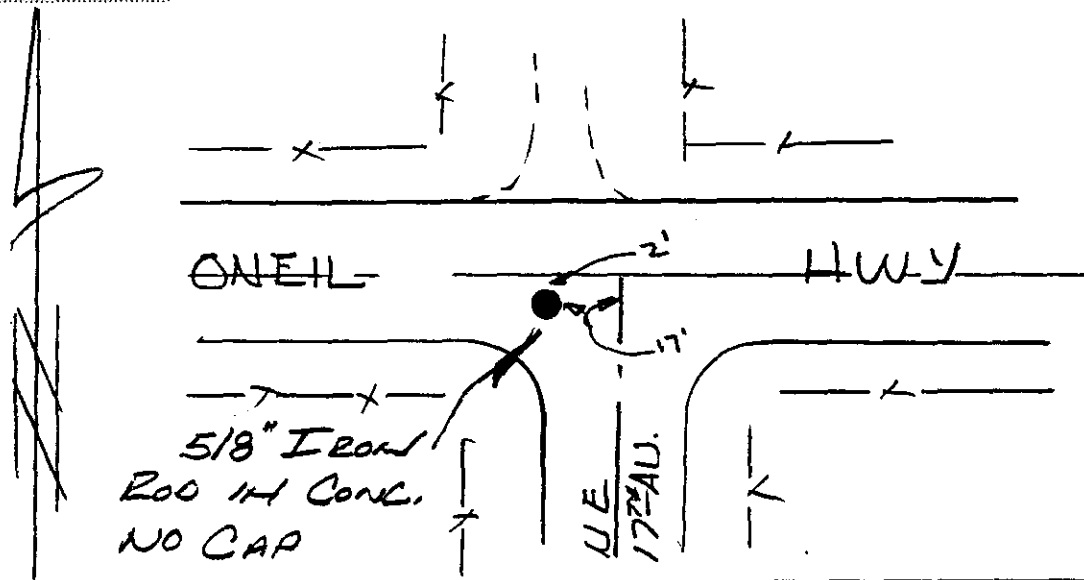
GEODETIC AND MAPPING COORDINATES

MARK: 14132800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°19'11.538294"	Northing: 481210.496	0.013
Longitude: 121°11'19.802461"	Easting: 3324736.868	0.012
Convergence: +0°03'57.6837"	Ell Height: 2886.36	0.025
Scale Factor: 1.000160698725	Ortho Height: 2951.61	0.037
Combined Factor: 1.00002275	Geoid Height: -65.25	

MARK DATA SHEET

NAME OF MARK: 14132600 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 26 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 039

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

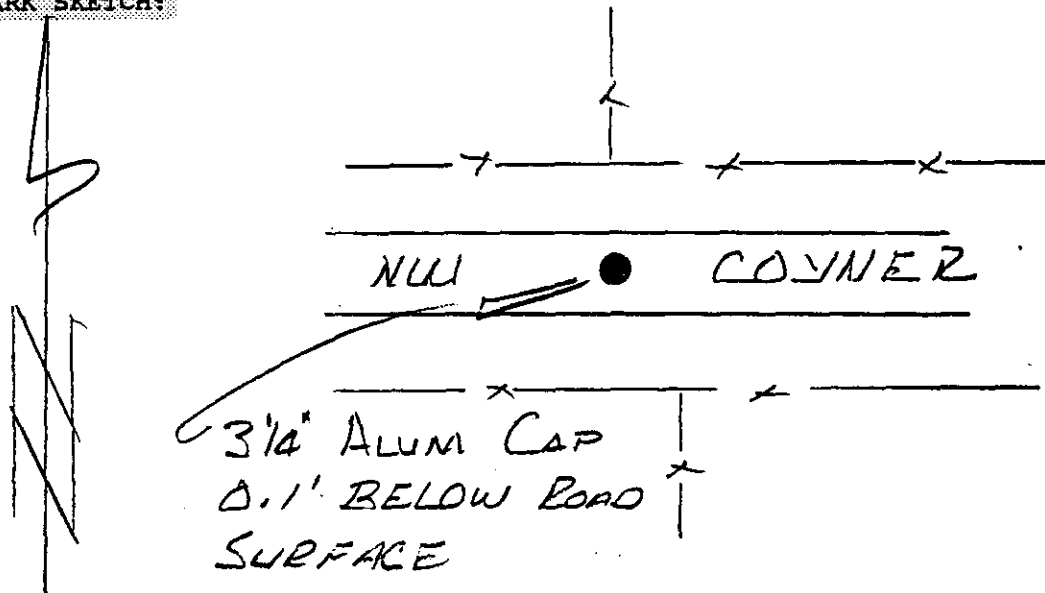
GEODETIC AND MAPPING COORDINATES

MARK: 14132600	HORIZONTAL ORDER: SECOND	ONE SIGMA ERROR
Latitude: 44°19'11.758627"	Northing: 481247.577	0.007
Longitude: 121°08'54.579623"	Easting: 3335296.456	0.007
Convergence: +0°05'39.1462"	Ell Height: 2883.88	0.015
Scale Factor: 1.000161422589	Ortho Height: 2948.92	0.031
Combined Factor: 1.00002359	Geoid Height: -65.05	

MARK DATA SHEET

NAME OF MARK: 14132900 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 29 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 001

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

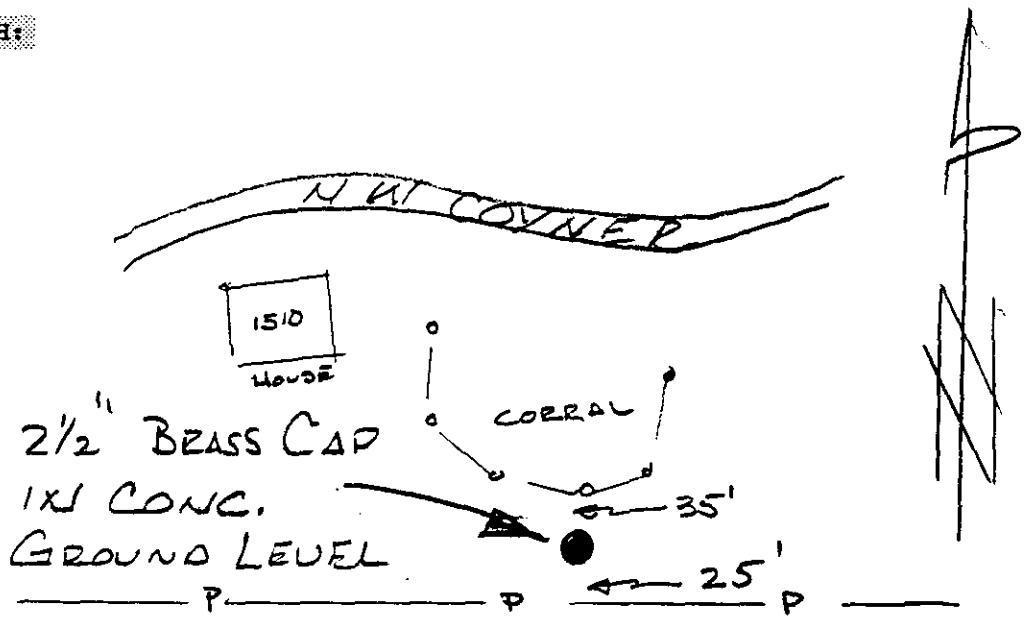
GEODETIC AND MAPPING COORDINATES

MARK: 14132900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°19'11.937950"	Northing: 481245.555	0.013
Longitude: 121°12'32.175282"	Easting: 3319474.368	0.012
Convergence: +0°03'07.1198"	Ell Height: 2766.69	0.024
Scale Factor: 1.000160433056	Ortho Height: 2832.06	0.037
Combined Factor: 1.0000282	Geoid Height: -65.36	

MARK DATA SHEET

NAME OF MARK: 14133000 **COUNTY:** DESCHUTES
MARK SET BY: LS 0971 ROBERT DAVENPORT **STATE:** OREGON
DATE OF MARK: 1974 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 037

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

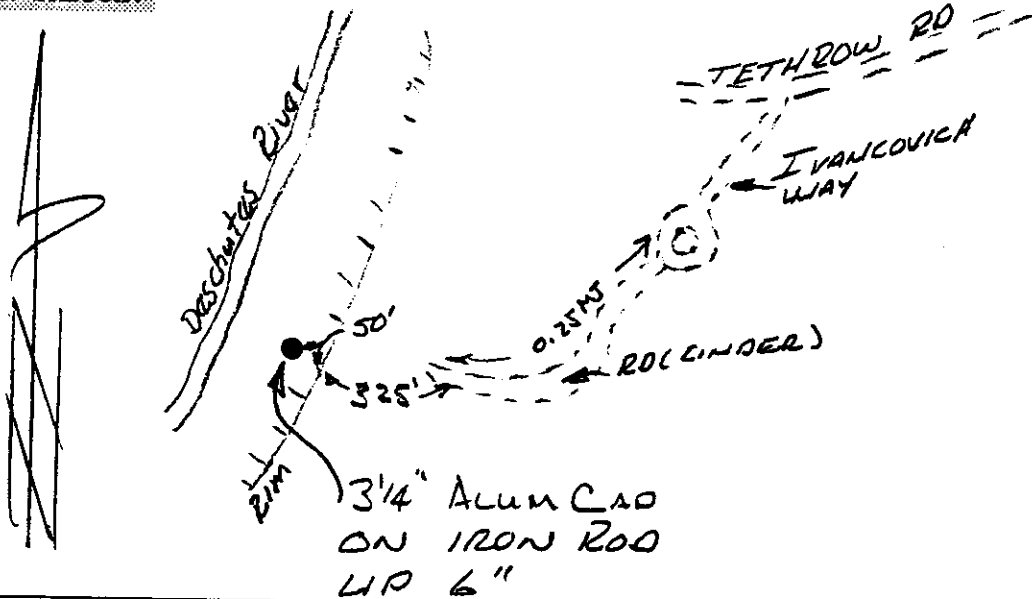
GEODETIC AND MAPPING COORDINATES

MARK: 14133000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°19'12.701228"	Northing: 481318.706	0.016
Longitude: 121°13'45.130256"	Easting: 3314169.534	0.014
Convergence: +0°02'16.1492"	Ell Height: 2707.65	0.031
Scale Factor: 1.000160229260	Ortho Height: 2773.15	0.042
Combined Factor: 1.00001884	Geoid Height: -65.50	

MARK DATA SHEET

NAME OF MARK: 14133100 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCHR 044

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

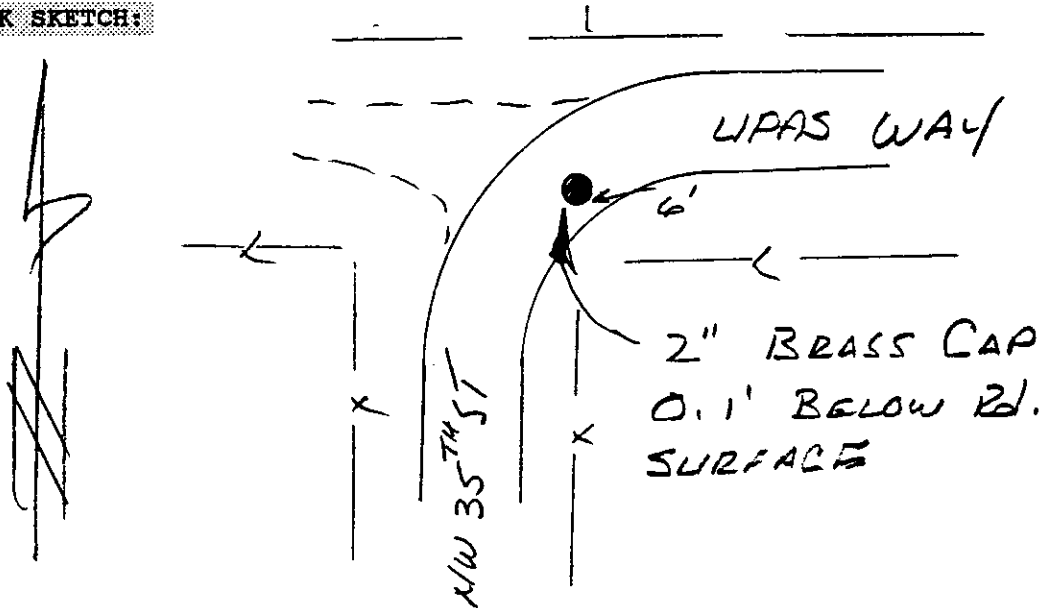
GEODETIC AND MAPPING COORDINATES

MARK: 14133100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'20.167035"	Northing: 475997.863	0.016
Longitude: 121°13'45.266457"	Easting: 3314163.140	0.015
Convergence: +0°02'16.0185"	Ell Height: 2763.81	0.029
Scale Factor: 1.000160229054	Ortho Height: 2829.27	0.040
Combined Factor: 1.00002814	Geoid Height: -65.46	

MARK DATA SHEET

NAME OF MARK: 14133200 **COUNTY:** DESCHUTES
MARK SET BY: LS 0010 AL MANSFIELD **STATE:** OREGON
DATE OF MARK: 1975 **COUNTRY:** U.S.A.
LOCATION: SECTION 32 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 035

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

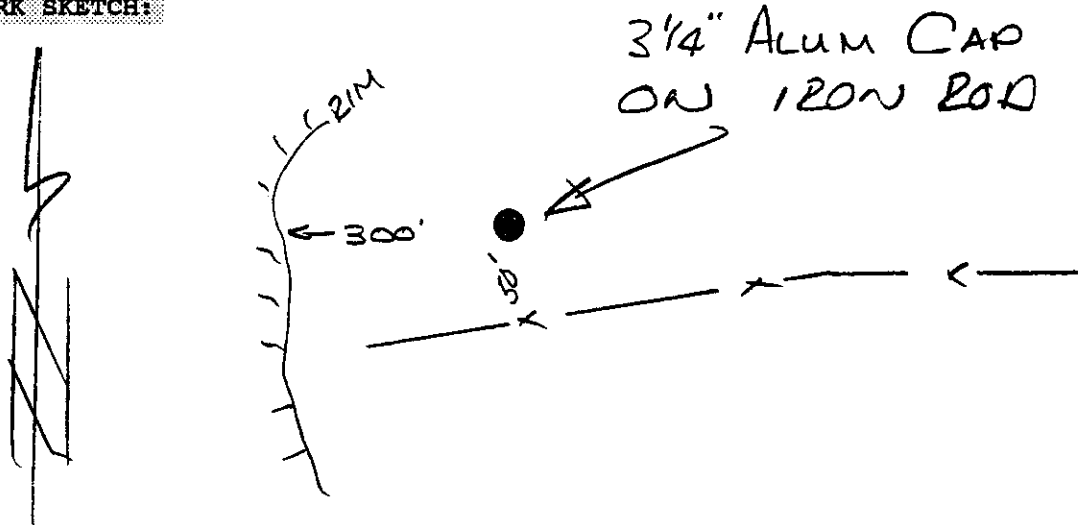
GEODETIC AND MAPPING COORDINATES

MARK: 14133200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'19.993872"	Northing: 475984.465	0.012
Longitude: 121°12'32.521605"	Easting: 3319453.952	0.011
Convergence: +0°03'06.8296"	Ell Height: 2825.18	FIXED
Scale Factor: 1.000160432150	Ortho Height: 2890.52	0.027
Combined Factor: 1.00002541	Geoid Height: -65.35	

MARK DATA SHEET

NAME OF MARK: 14133300 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 33 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 048

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

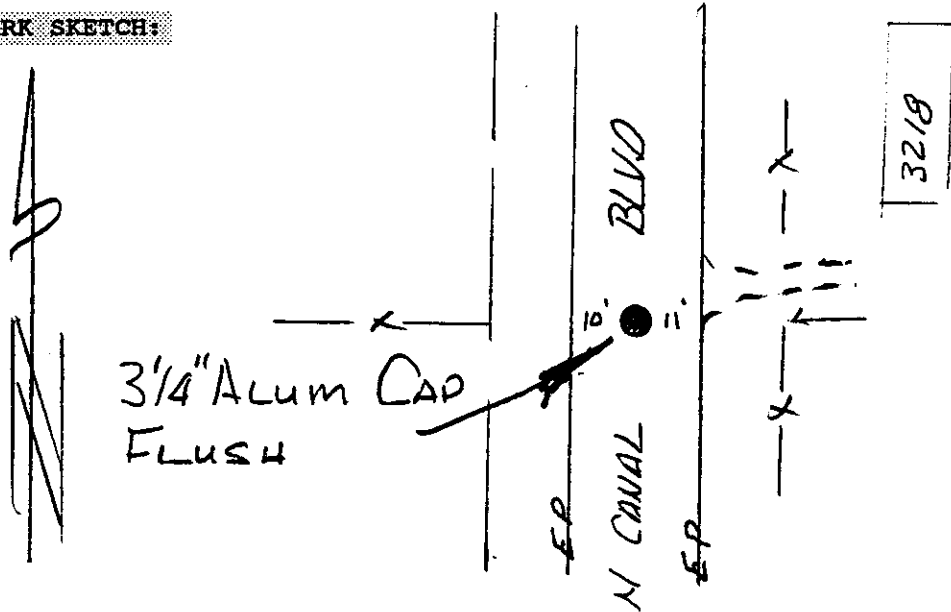
GEODETIC AND MAPPING COORDINATES

MARK: 14133300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'19.689384"	Northing: 475959.053	0.013
Longitude: 121°11'19.970799"	Easting: 3324730.675	0.012
Convergence: +0°03'57.5049"	Ell Height: 2881.19	0.024
Scale Factor: 1.000160698378	Ortho Height: 2946.43	0.036
Combined Factor: 1.000023	Geoid Height: -65.25	

MARK DATA SHEET

NAME OF MARK: 14133400 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 34 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCCR 019

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

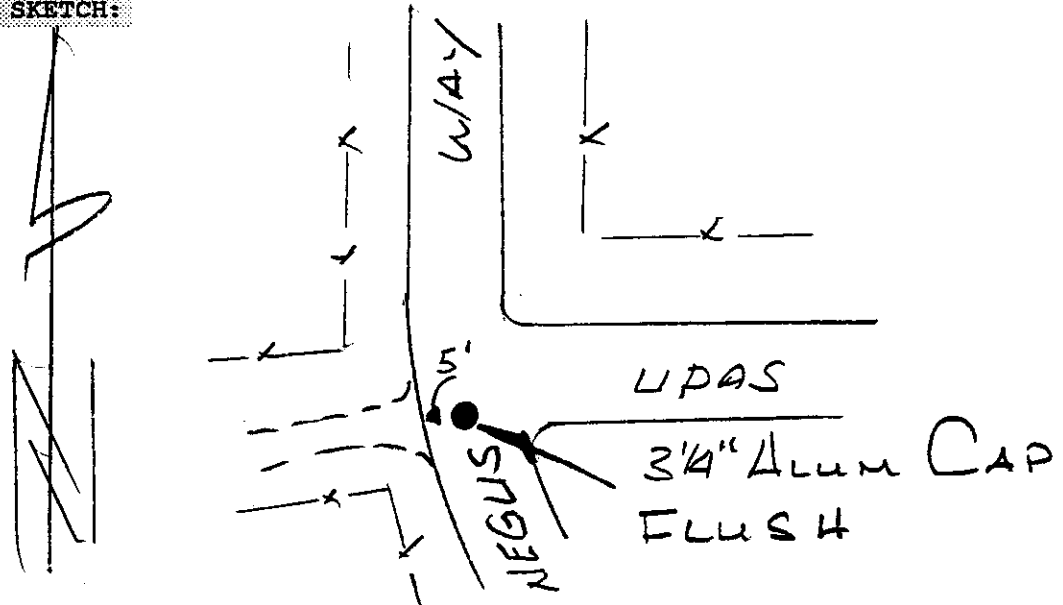
GEODETIC AND MAPPING COORDINATES

MARK: 14133400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'19.852809"	Northing: 475982.328	0.014
Longitude: 121°10'07.433084"	Easting: 3330006.395	0.012
Convergence: +0°04'48.1717"	Ell Height: 2904.92	0.026
Scale Factor: 1.000161028126	Ortho Height: 2970.06	0.038
Combined Factor: 1.00002219	Geoid Height: -65.14	

MARK DATA SHEET

NAME OF MARK: 14133500 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 35 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 034

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

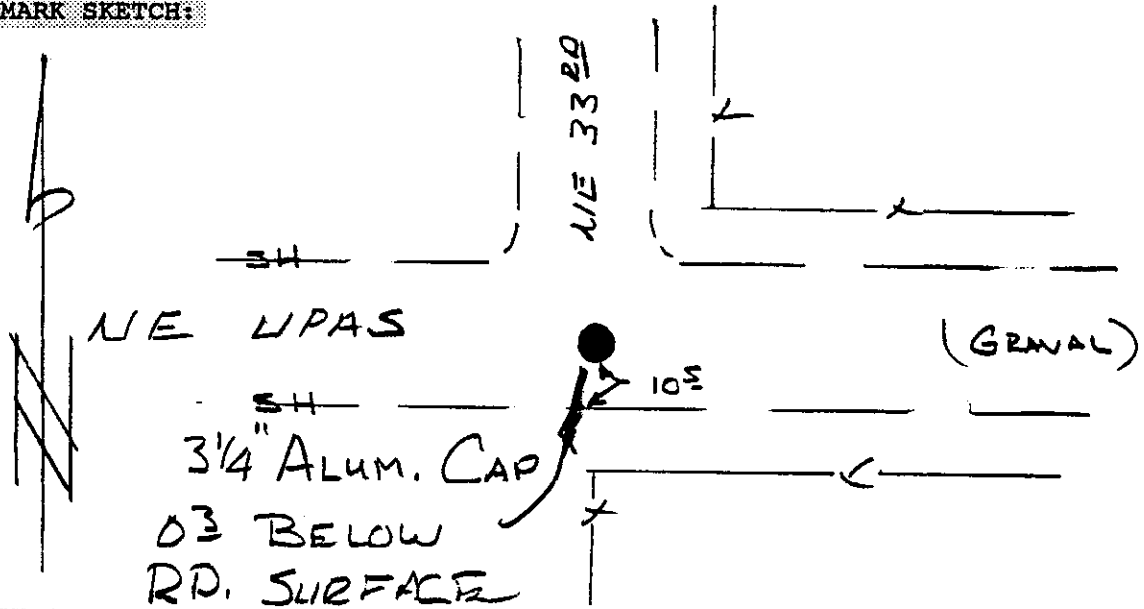
GEODETIC AND MAPPING COORDINATES

MARK: 14133500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'19.877461"	Northing: 475992.847	0.016
Longitude: 121°08'54.867959"	Easting: 3335284.124	0.013
Convergence: +0°05'38.8574"	Ell Height: 2917.62	0.034
Scale Factor: 1.000161421600	Ortho Height: 2982.67	0.043
Combined Factor: 1.00002198	Geoid Height: -65.05	

MARK DATA SHEET

NAME OF MARK: 14133600 **COUNTY:** DESCHUTES
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 36 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 004

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

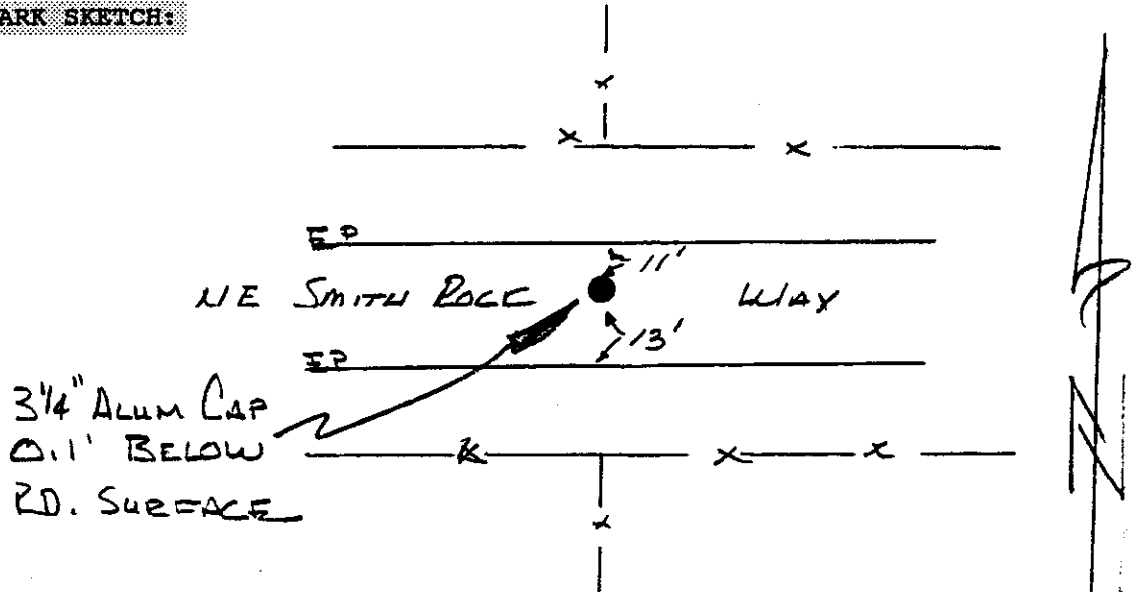
GEODETIC AND MAPPING COORDINATES

MARK: 14133600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'19.926908"	Northing: 476007.154	0.018
Longitude: 121°07'42.448113"	Easting: 3340551.280	0.013
Convergence: +0°06'29.4418"	Ell Height: 2940.10	0.036
Scale Factor: 1.000161877708	Ortho Height: 3005.06	0.045
Combined Factor: 1.00002136	Geoid Height: -64.95	

MARK DATA SHEET

NAME OF MARK: 14141800 **COUNTY:** CROOK
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 18 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCCR 796

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

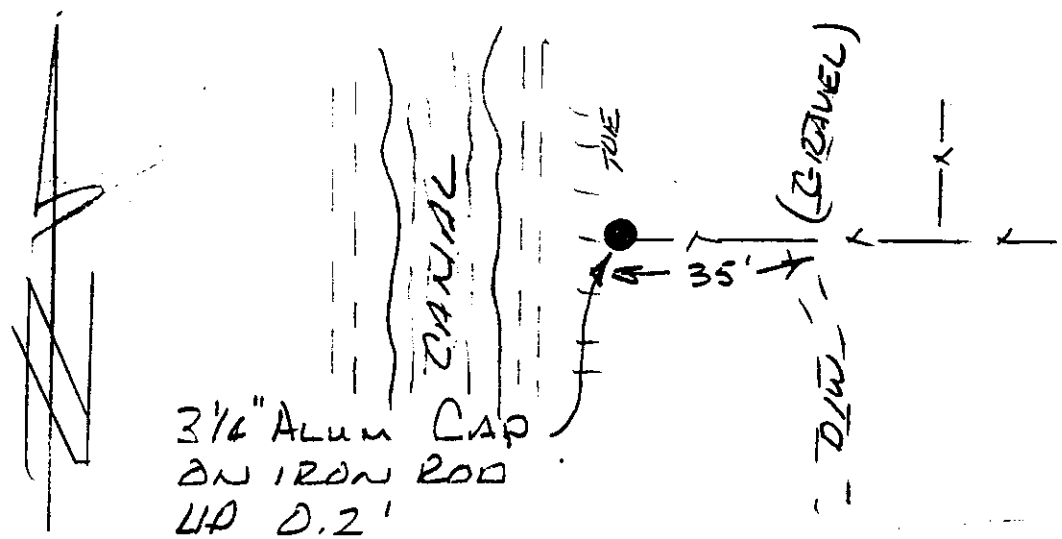
GEODETIC AND MAPPING COORDINATES

MARK: 14141800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'56.062822"	Northing: 491831.956	0.024
Longitude: 121°06'28.674990"	Easting: 3345883.048	0.020
Convergence: +0°07'21.3133"	Ell Height: 2845.56	0.052
Scale Factor: 1.000162403915	Ortho Height: 2910.38	0.059
Combined Factor: 1.0000264	Geoid Height: -64.83	

MARK DATA SHEET

NAME OF MARK: 14141900 **COUNTY:** CROOK
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 19 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 023

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91)	VERTICAL DATUM: NAVD 29
PROJECTION: TRANSVERSE MERCATOR	ZONE: CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00"	ORIGIN NORTHING: 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00"	ORIGIN EASTING: 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT	SCALE ALONG MERIDIAN: 1.0001600

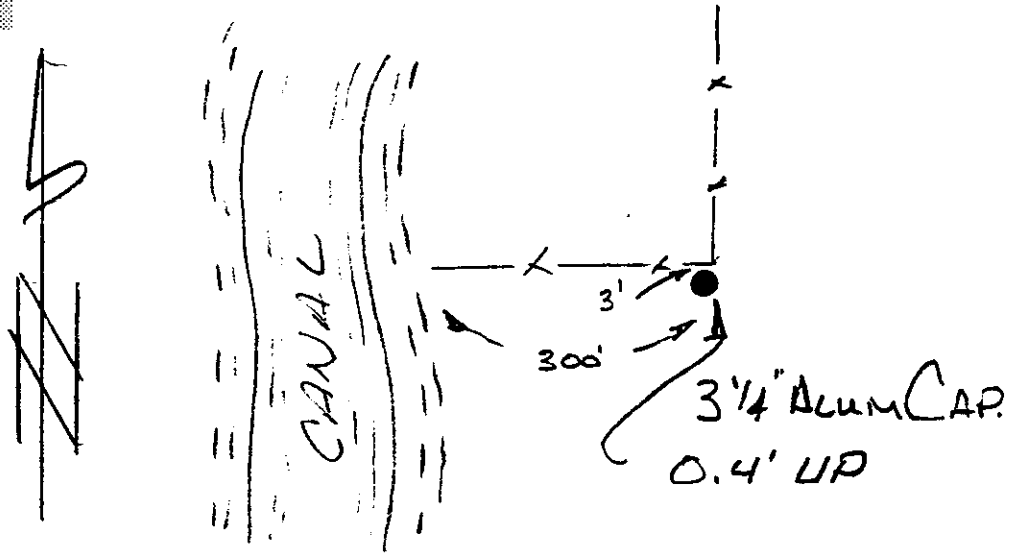
GEODETIC AND MAPPING COORDINATES

MARK: 14141900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°20'04.017394"	Northing: 486560.606	0.020
Longitude: 121°06'28.613840"	Easting: 3345898.771	0.016
Convergence: +0°07'21.2421"	Ell Height: 2865.77	0.048
Scale Factor: 1.000162405571	Ortho Height: 2930.63	0.056
Combined Factor: 1.00002544	Geoid Height: -64.87	

MARK DATA SHEET

NAME OF MARK: 14143000 **COUNTY:** CROOK
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCCR 026

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

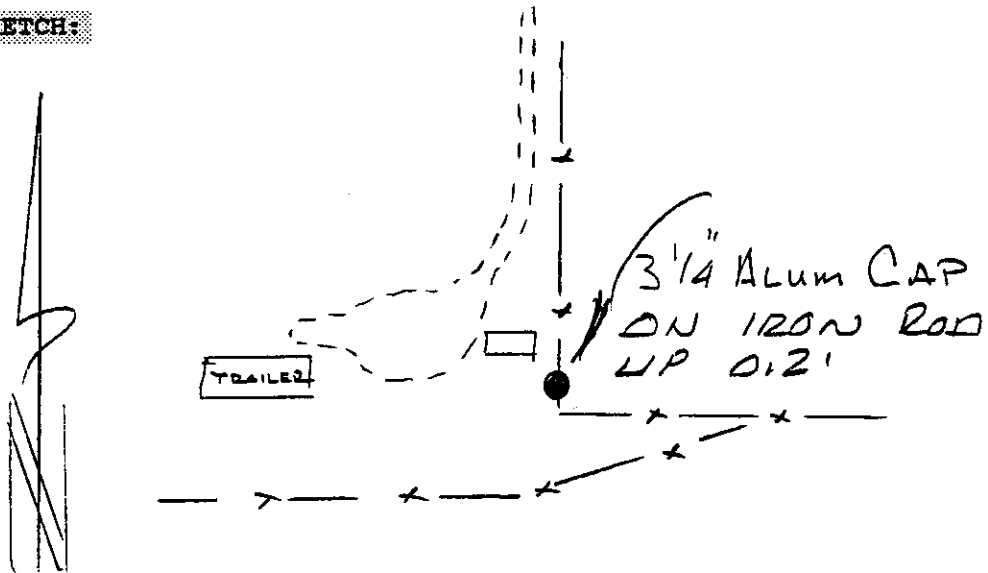
GEODETIC AND MAPPING COORDINATES

MARK:	14143000	HORIZONTAL ORDER:	SECOND	ONE SIGMA ERROR
Latitude:	44°19'12.135097"	Northing:	481305.821	0.044
Longitude:	121°06'28.365908"	Easting:	3345928.038	0.032
Convergence:	+0°07'21.3017"	Ell Height:	2882.00	0.091
Scale Factor:	1.000162408648	Ortho Height:	2946.87	0.095
Combined Factor:	1.00002467	Geoid Height:	-64.87	

MARK DATA SHEET

NAME OF MARK: 14143100 **COUNTY:** CROOK
MARK SET BY: LS 0804 C. H. KETCHAM **STATE:** OREGON
DATE OF MARK: 1987 **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 14 S RANGE 13 E
REFERENCE: OCRR 010

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

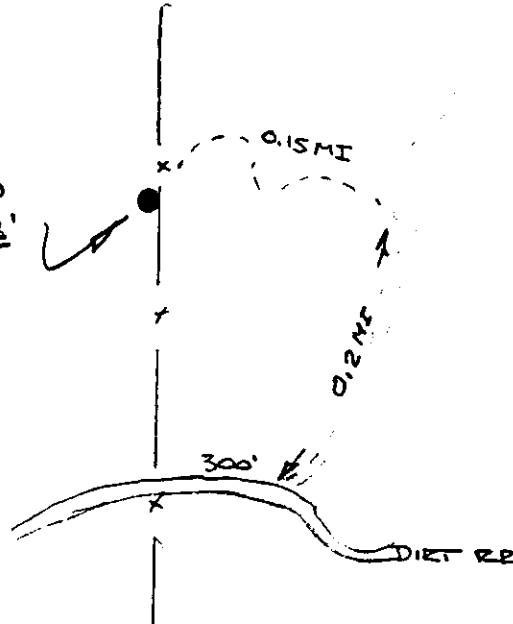
MARK: 14143100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°18'20.117146"	Northing: 476037.121	0.015
Longitude: 121°06'29.333668"	Easting: 3345868.923	0.012
Convergence: +0°07'20.5117"	Ell Height: 2900.95	0.035
Scale Factor: 1.000162402460	Ortho Height: 2965.82	0.045
Combined Factor: 1.00002376	Geoid Height: -64.87	

MARK DATA SHEET

NAME OF MARK: 15130100 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 1 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1269

MARK SKETCH:

3 1/4" BRASS CAP ON
IRON PIPE UP 03'



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

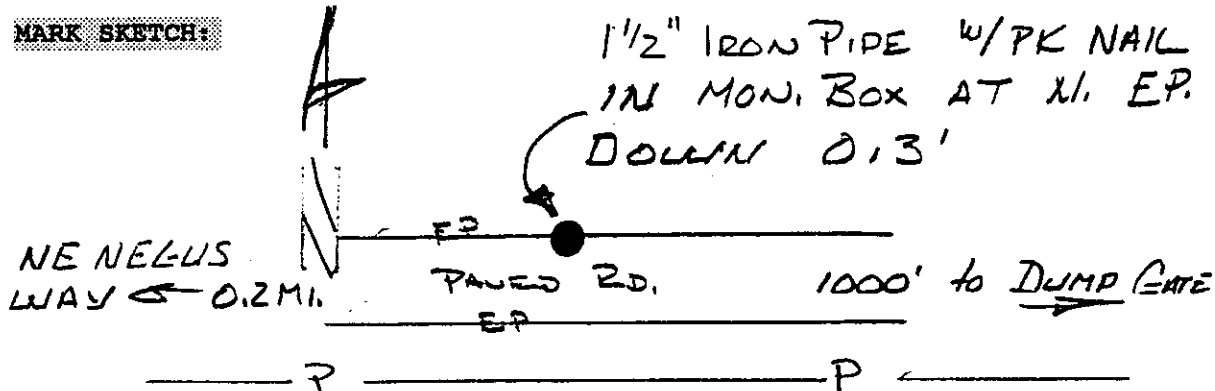
GEODETIC AND MAPPING COORDINATES

MARK: 15130100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.594124"	Northing: 470706.618	0.021
Longitude: 121°07'43.266687"	Easting: 3340501.736	0.016
Convergence: +0°06'28.7689"	Ell Height: 2941.01	0.040
Scale Factor: 1.000161873129	Ortho Height: 3005.96	0.048
Combined Factor: 1.00002131	Geoid Height: -64.95	

MARK DATA SHEET

NAME OF MARK: 15130200 **COUNTY:** DESCHUTES
MARK SET BY: LS 0454 JENE HAWTHORNE **STATE:** OREGON
DATE OF MARK: 1966 **COUNTRY:** U.S.A.
LOCATION: SECTION 2 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1272

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

MARK: 15130200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.745546"	Northing: 470712.685	0.019
Longitude: 121°08'55.570366"	Easting: 3335241.698	0.015
Convergence: +0°05'38.2792"	Ell Height: 2943.27	0.038
Scale Factor: 1.000161418188	Ortho Height: 3008.31	0.047
Combined Factor: 1.00002075	Geoid Height: -65.04	

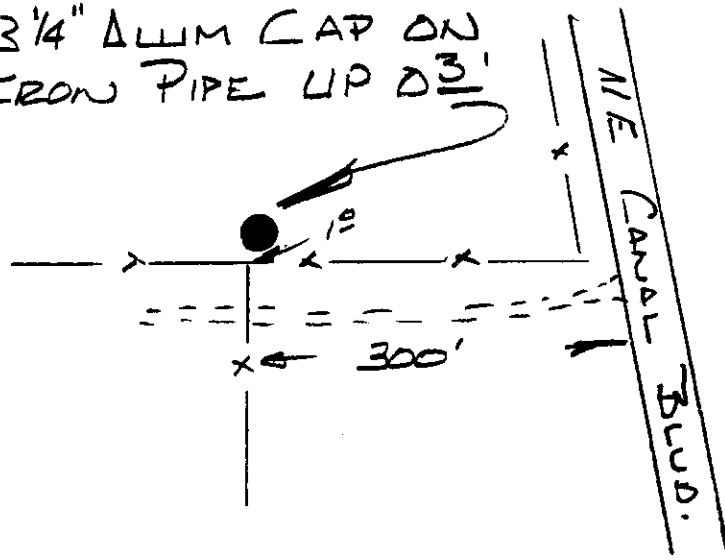
MARK DATA SHEET

NAME OF MARK: 15130300 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 3 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1292

MARK SKETCH:



3/4" ALUM CAP ON
IRON PIPE UP 03'



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

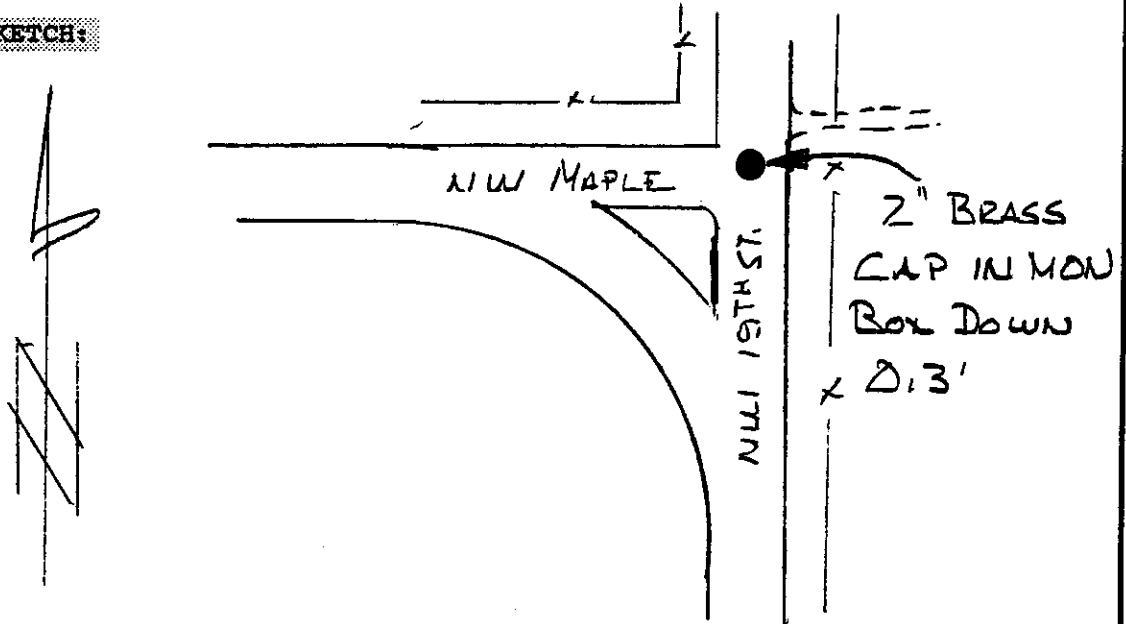
GEODETIC AND MAPPING COORDINATES

MARK: 15130300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.594126"	Northing: 470689.330	0.018
Longitude: 121°10'08.225188"	Easting: 3329956.164	0.014
Convergence: +0°04'47.5437"	Ell Height: 2914.05	0.036
Scale Factor: 1.000161024690	Ortho Height: 2979.19	0.045
Combined Factor: 1.00002175	Geoid Height: -65.14	

MARK DATA SHEET

NAME OF MARK: 15130400 **COUNTY:** DESCHUTES
MARK SET BY: DESCHUTES CO. PUBLIC WORKS **STATE:** OREGON
DATE OF MARK: 1997 **COUNTRY:** U.S.A.
LOCATION: SECTION 4 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1280

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

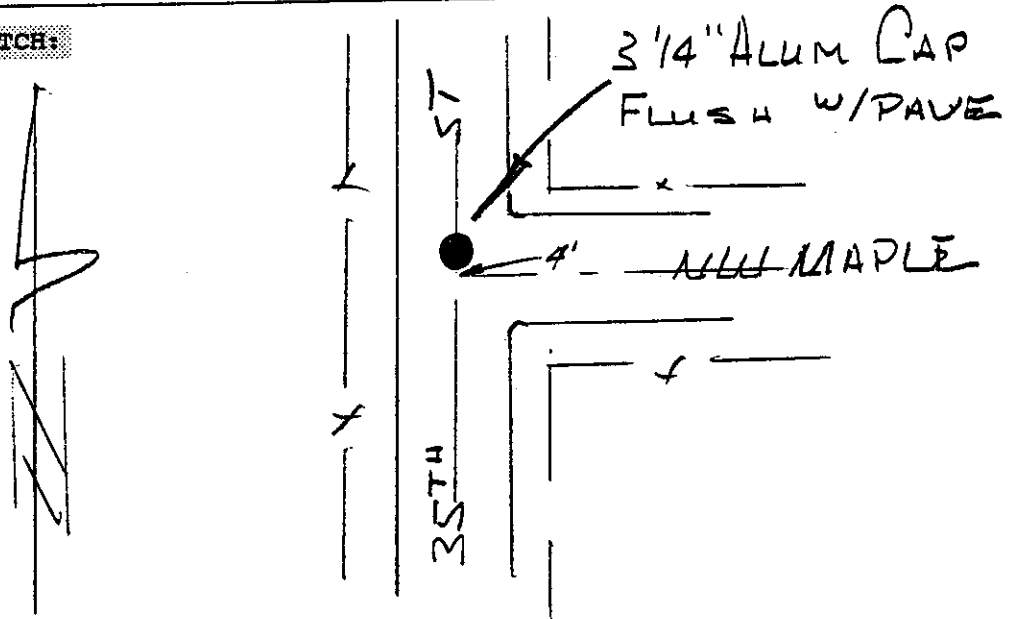
GEODETIC AND MAPPING COORDINATES

MARK: 15130400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.444112"	Northing: 470667.423	0.022
Longitude: 121°11'20.819693"	Easting: 3324675.011	0.016
Convergence: +0°03'56.8505"	Ell Height: 2897.73	0.039
Scale Factor: 1.000160695240	Ortho Height: 2962.96	0.047
Combined Factor: 1.0000222	Geoid Height: -65.23	

MARK DATA SHEET

NAME OF MARK: 15130500 **COUNTY:** DESCHUTES
MARK SET BY: LS 2033 MICHAEL TOMPKINS **STATE:** OREGON
DATE OF MARK: 1988 **COUNTRY:** U.S.A.
LOCATION: SECTION 5 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 953

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

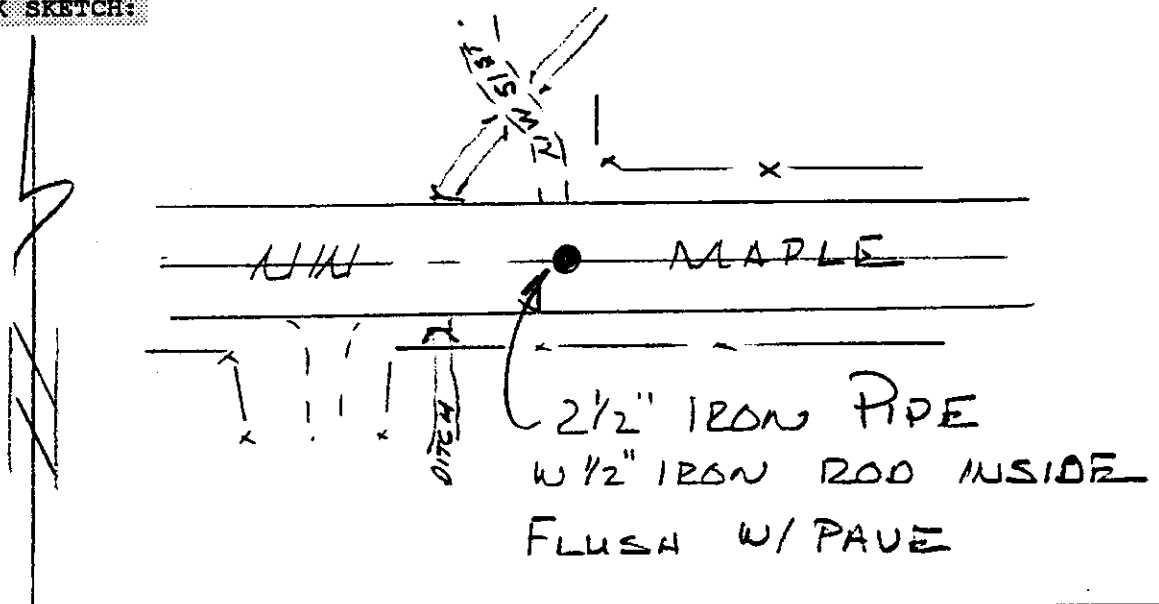
GEODETIC AND MAPPING COORDINATES

MARK:	15130500	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°17'27.574361"	Northing:	470675.208	0.018
Longitude:	121°12'33.281894"	Easting:	3319403.450	0.014
Convergence:	+0°03'06.2500"	Ell Height:	2885.16	FIXED
Scale Factor:	1.000160429910	Ortho Height:	2950.49	0.027
Combined Factor:	1.00002254	Geoid Height:	-65.33	

MARK DATA SHEET

NAME OF MARK: 15130600 **COUNTY:** DESCHUTES
MARK SET BY: LS 0010 AL MANSFIELD **STATE:** OREGON
DATE OF MARK: 1971 **COUNTRY:** U.S.A.
LOCATION: SECTION 6 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1281

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

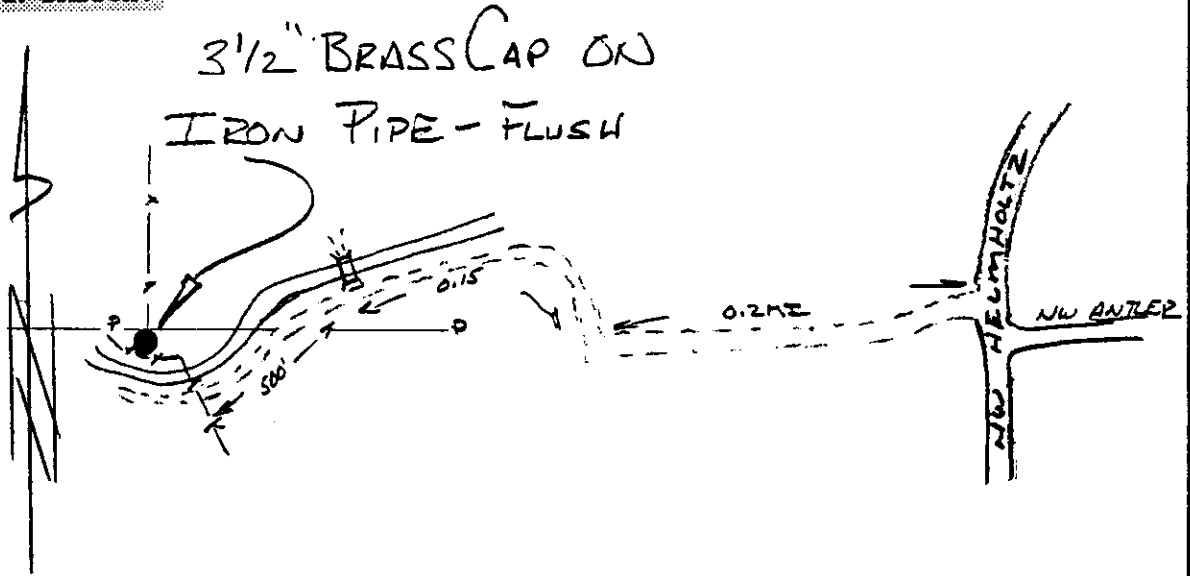
GEODETIC AND MAPPING COORDINATES

MARK: 15130600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.854391"	Northing: 470699.493	0.025
Longitude: 121°13'45.000733"	Easting: 3314185.964	0.019
Convergence: +0°02'16.1687"	Ell Height: 2861.18	0.052
Scale Factor: 1.000160229793	Ortho Height: 2926.61	0.059
Combined Factor: 1.00002348	Geoid Height: -65.43	

MARK DATA SHEET

NAME OF MARK: 15130700 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 7 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1243

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

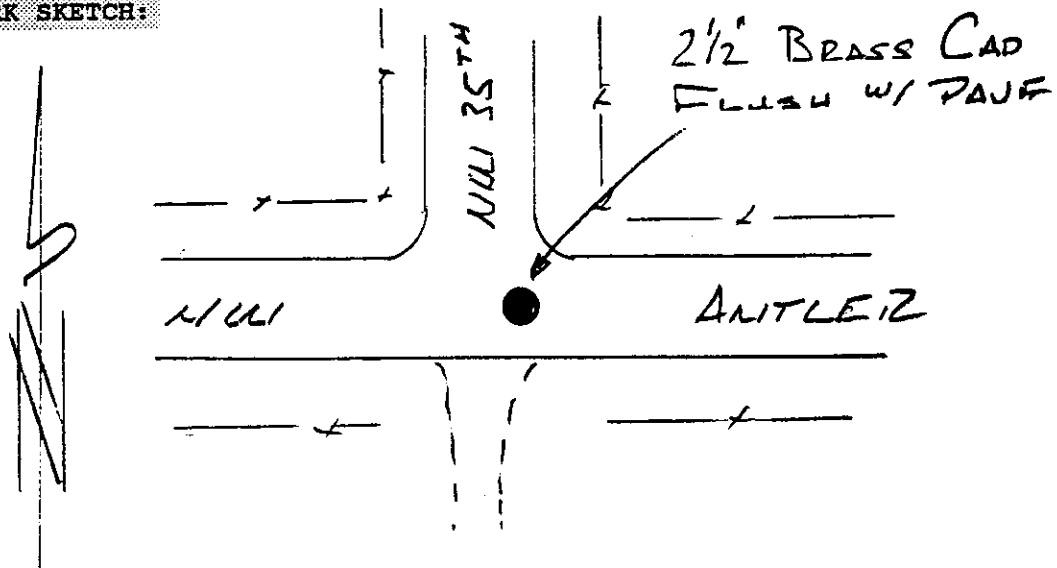
GEODETIC AND MAPPING COORDINATES

MARK: 15130700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.608953"	Northing: 465407.904	0.032
Longitude: 121°13'45.532501"	Easting: 3314150.762	0.020
Convergence: +0°02'15.7621"	Ell Height: 2894.40	0.062
Scale Factor: 1.000160228655	Ortho Height: 2959.80	0.068
Combined Factor: 1.00002189	Geoid Height: -65.39	

MARK DATA SHEET

NAME OF MARK: 15130800 **COUNTY:** DESCHUTES
MARK SET BY: LS 0010 AL MANSFIELD **STATE:** OREGON
DATE OF MARK: 1973 **COUNTRY:** U.S.A.
LOCATION: SECTION 8 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1282

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

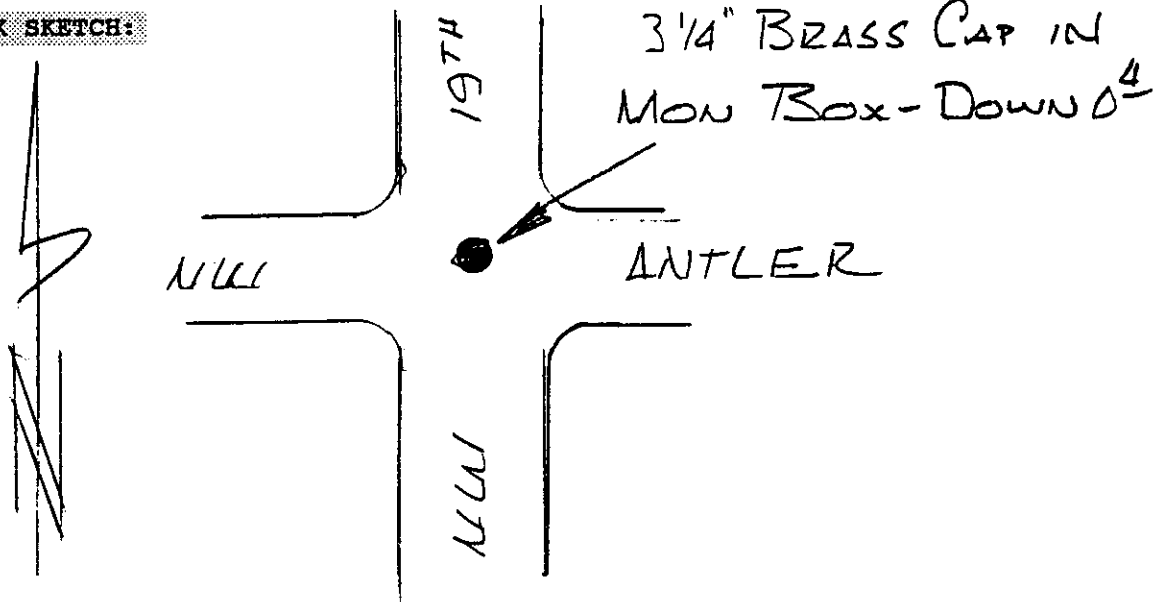
GEODETIC AND MAPPING COORDINATES

MARK: 15130800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.116589"	Northing: 465362.106	0.020
Longitude: 121°12'33.787800"	Easting: 3319371.434	0.016
Convergence: +0°03'05.8483"	Ell Height: 2905.58	0.042
Scale Factor: 1.000160428494	Ortho Height: 2970.89	0.050
Combined Factor: 1.00002156	Geoid Height: -65.31	

MARK DATA SHEET

NAME OF MARK: 15130900 **COUNTY:** DESCHUTES
MARK SET BY: LS 2335 LYNN BRUNO **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 9 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1270

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

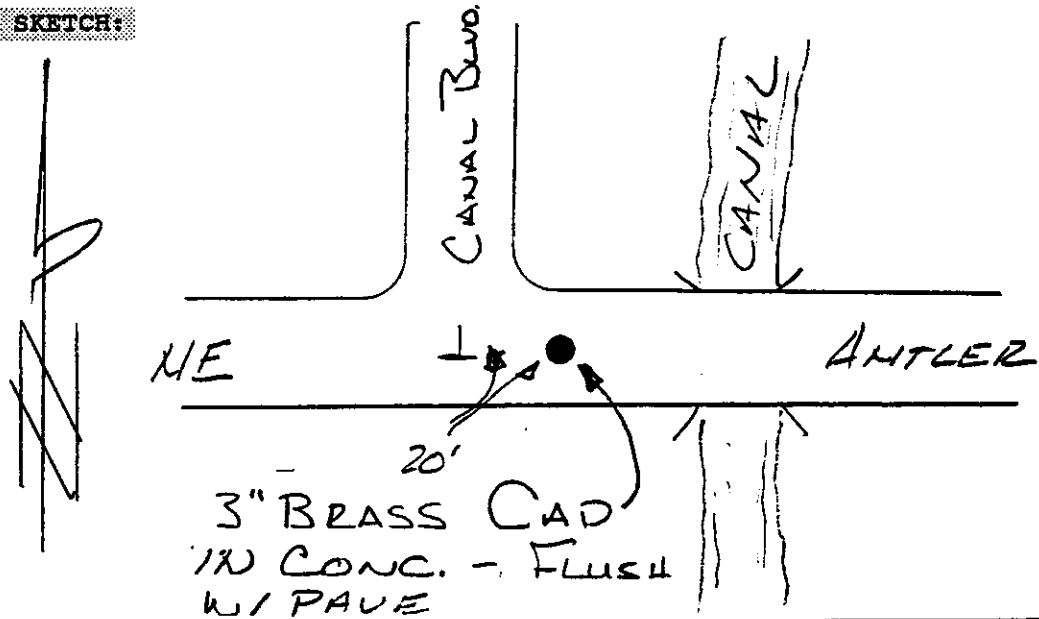
GEODETIC AND MAPPING COORDINATES

MARK: 15130900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.229509"	Northing: 465378.943	0.020
Longitude: 121°11'21.297694"	Easting: 3324646.300	0.015
Convergence: +0°03'56.4553"	Ell Height: 2920.90	0.042
Scale Factor: 1.000160693625	Ortho Height: 2986.11	0.050
Combined Factor: 1.00002109	Geoid Height: -65.21	

MARK DATA SHEET

NAME OF MARK: 15131000 **COUNTY:** DESCHUTES
MARK SET BY: OREGON STATE HIGHWAY **STATE:** OREGON
DATE OF MARK: 1974 **COUNTRY:** U.S.A.
LOCATION: SECTION 10 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1273

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

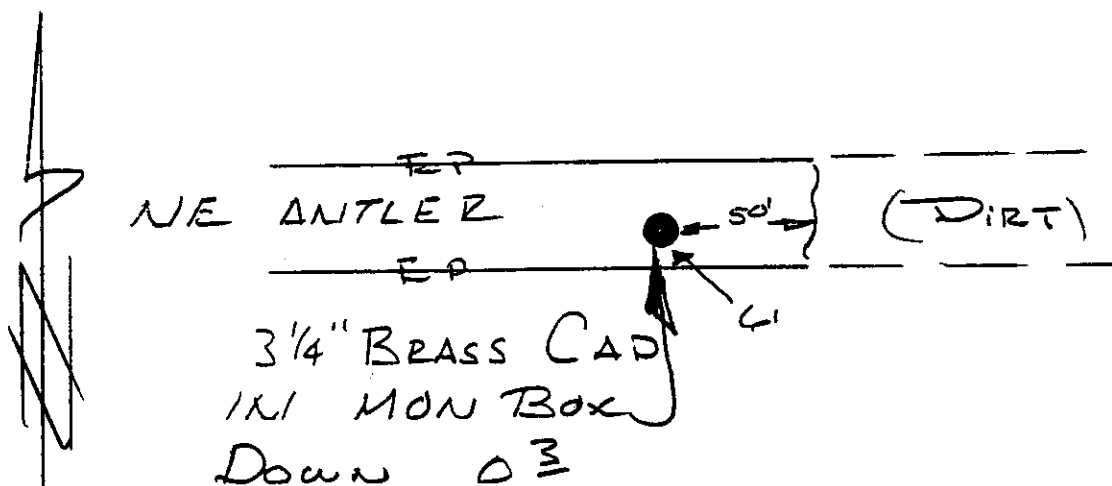
GEODETIC AND MAPPING COORDINATES

MARK: 15131000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.486925"	Northing: 465411.778	0.021
Longitude: 121°10'08.127138"	Easting: 3329970.655	0.016
Convergence: +0°04'47.5377"	Ell Height: 2929.68	0.042
Scale Factor: 1.000161025685	Ortho Height: 2994.80	0.050
Combined Factor: 1.00002101	Geoid Height: -65.12	

MARK DATA SHEET

NAME OF MARK: 15131100 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 11 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1268

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400GSSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

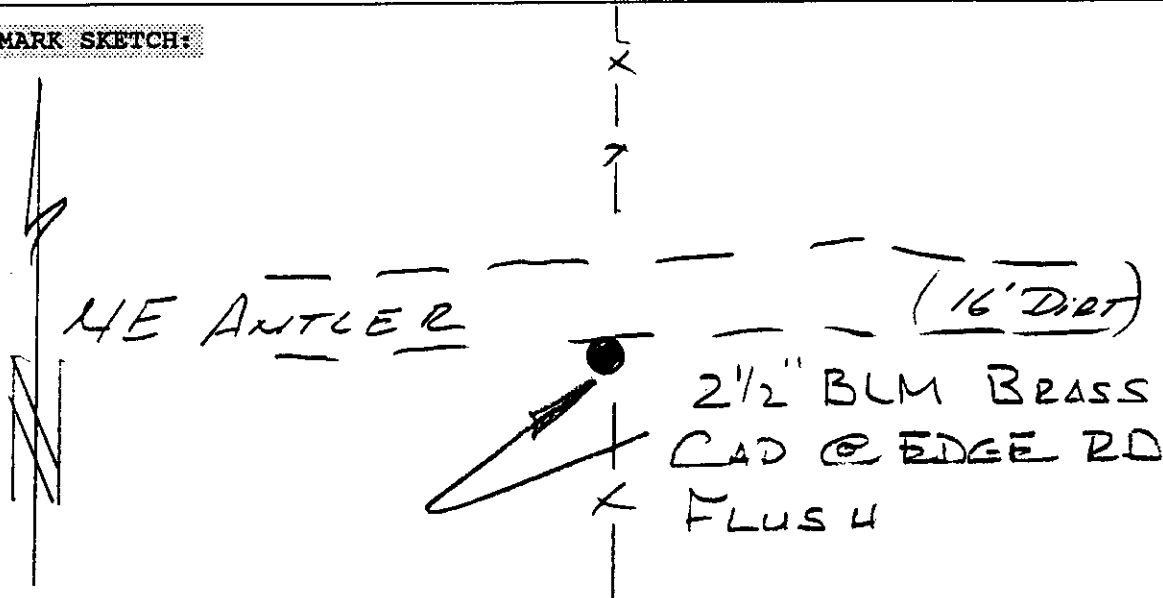
GEODETIC AND MAPPING COORDINATES

MARK: 15131100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.625312"	Northing: 465433.835	0.024
Longitude: 121°08'55.297375"	Easting: 3335270.219	0.017
Convergence: +0°05'38.3821"	Ell Height: 2976.79	0.043
Scale Factor: 1.000161420490	Ortho Height: 3041.81	0.051
Combined Factor: 1.00001915	Geoid Height: -65.02	

MARK DATA SHEET

NAME OF MARK: 15131200 **COUNTY:** DESCHUTES
MARK SET BY: U.S. DEPT. INT. (B L M) **STATE:** OREGON
DATE OF MARK: 1949 **COUNTRY:** U.S.A.
LOCATION: SECTION 12 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1265

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

GEODETIC AND MAPPING COORDINATES

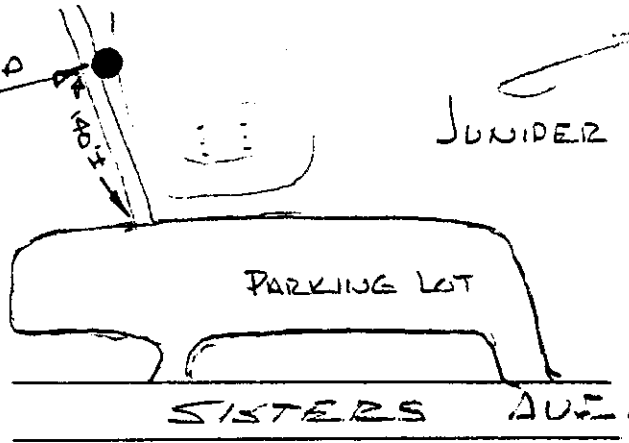
MARK: 15131200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°16'35.403932"	Northing: 465420.684	0.029
Longitude: 121°07'43.021954"	Easting: 3340529.506	0.020
Convergence: +0°06'28.8389"	Ell Height: 2961.89	0.053
Scale Factor: 1.000161875705	Ortho Height: 3026.81	0.060
Combined Factor: 1.00002032	Geoid Height: -64.92	

MARK DATA SHEET

NAME OF MARK: 15131500 **COUNTY:** DESCHUTES
MARK SET BY: U.S. DEPT. INT. (B L M) **STATE:** OREGON
DATE OF MARK: 1949 **COUNTRY:** U.S.A.
LOCATION: SECTION 15 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1274

MARK SKETCH:

2 1/2' BEASS CAP
 Down 0.3'
 EDGE CART
 PATH



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

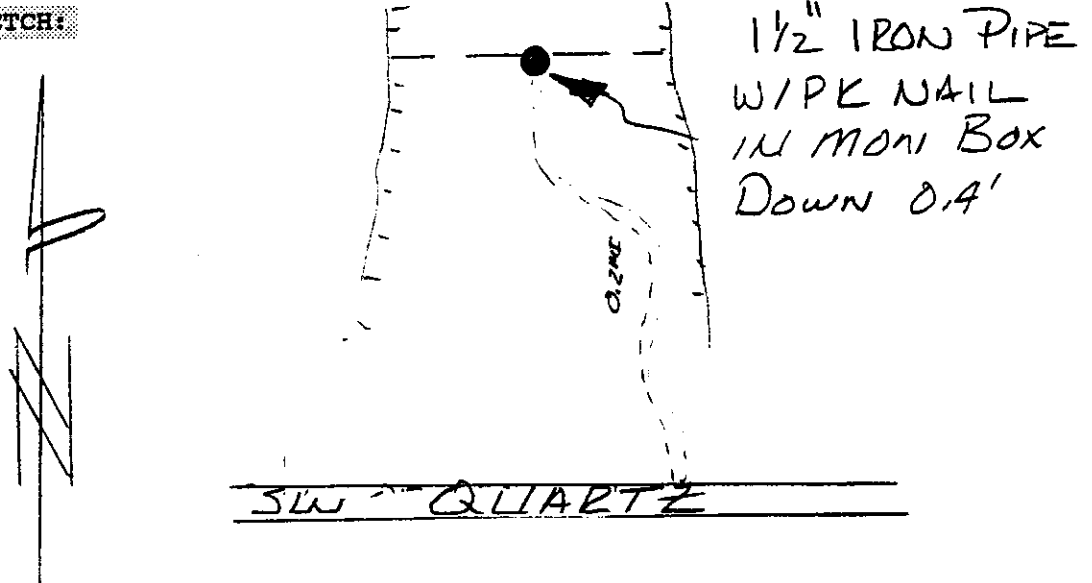
GEODETIC AND MAPPING COORDINATES

MARK: 15131500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°15'43.429855"	Northing: 460139.320	0.020
Longitude: 121°10'07.987323"	Easting: 3329988.181	0.013
Convergence: +0°04'47.5608"	Ell Height: 2949.44	0.036
Scale Factor: 1.000161026889	Ortho Height: 3014.53	0.046
Combined Factor: 1.00002006	Geoid Height: -65.09	

MARK DATA SHEET

NAME OF MARK: 15131600 **COUNTY:** DESCHUTES
MARK SET BY: PE 4840 R S ALLMAN **STATE:** OREGON
DATE OF MARK: 1971 **COUNTRY:** U.S.A.
LOCATION: SECTION 16 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1279

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

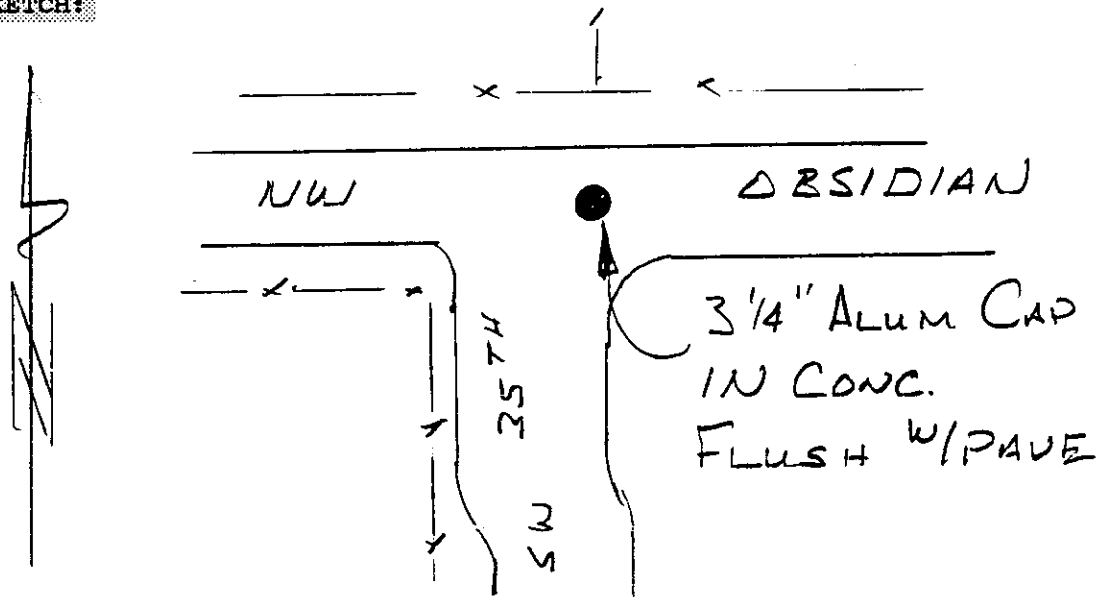
GEODETIC AND MAPPING COORDINATES

MARK: 15131600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°15'43.310262"	Northing: 460120.483	0.015
Longitude: 121°11'20.676778"	Easting: 3324697.521	0.013
Convergence: +0°03'56.8276"	Ell Height: 2909.12	0.033
Scale Factor: 1.000160696514	Ortho Height: 2974.30	0.043
Combined Factor: 1.00002166	Geoid Height: -65.19	

MARK DATA SHEET

NAME OF MARK: 15131700 **COUNTY:** DESCHUTES
MARK SET BY: LS 1652 ROBERT POVEY **STATE:** OREGON
DATE OF MARK: 1990 **COUNTRY:** U.S.A.
LOCATION: SECTION 17 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1277

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

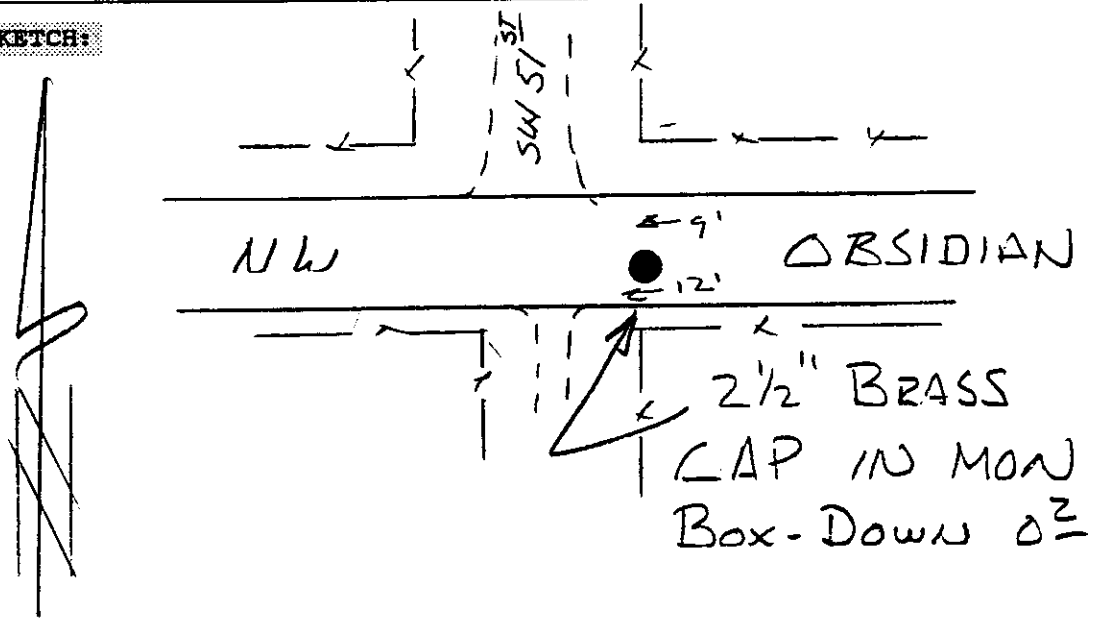
GEODETIC AND MAPPING COORDINATES

MARK: 15131700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°15'42.995001"	Northing: 460083.075	0.021
Longitude: 121°12'34.172864"	Easting: 3319348.163	0.016
Convergence: +0°03'05.5314"	Ell Height: 2945.59	0.043
Scale Factor: 1.000160427467	Ortho Height: 3010.87	0.051
Combined Factor: 1.00001965	Geoid Height: -65.28	

MARK DATA SHEET

NAME OF MARK: 15131800 **COUNTY:** DESCHUTES
MARK SET BY: LS 0971 ROBERT DAVENPORT **STATE:** OREGON
DATE OF MARK: 1974 **COUNTRY:** U.S.A.
LOCATION: SECTION 18 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1278

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

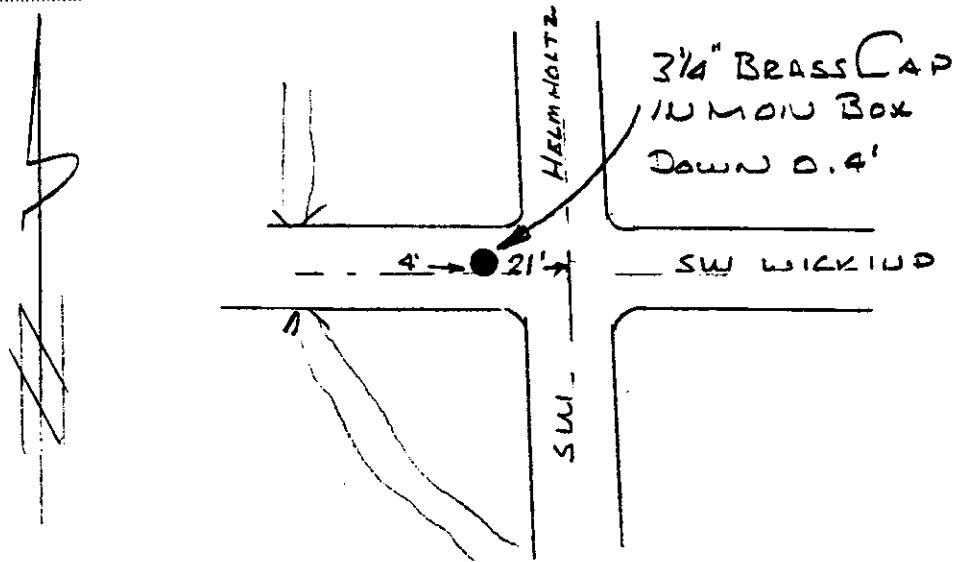
GEODETIC AND MAPPING COORDINATES

MARK: 15131800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°15'43.385654"	Northing: 460118.582	0.016
Longitude: 121°13'45.852688"	Easting: 3314130.939	0.014
Convergence: +0°02'15.5034"	Ell Height: 2941.46	0.034
Scale Factor: 1.000160228016	Ortho Height: 3005.83	0.045
Combined Factor: 1.00001964	Geoid Height: -65.37	

MARK DATA SHEET

NAME OF MARK: 15131900 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 19 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1312

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

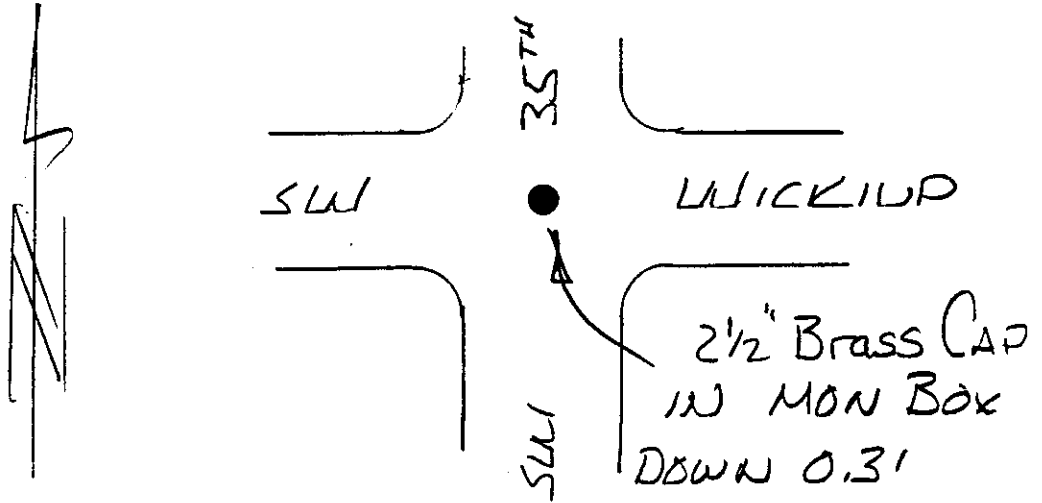
GEODETIC AND MAPPING COORDINATES

MARK: 15131900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'51.164681"	Northing: 454829.512	0.021
Longitude: 121°13'46.100238"	Easting: 3314116.390	0.019
Convergence: +0°02'15.2955"	Ell Height: 2992.63	0.051
Scale Factor: 1.000160227547	Ortho Height: 3057.96	0.059
Combined Factor: 1.0000172	Geoid Height: -65.33	

MARK DATA SHEET

NAME OF MARK: 15132000 **COUNTY:** DESCHUTES
MARK SET BY: LS 2355 JOEL SMITH **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 20 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1287

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

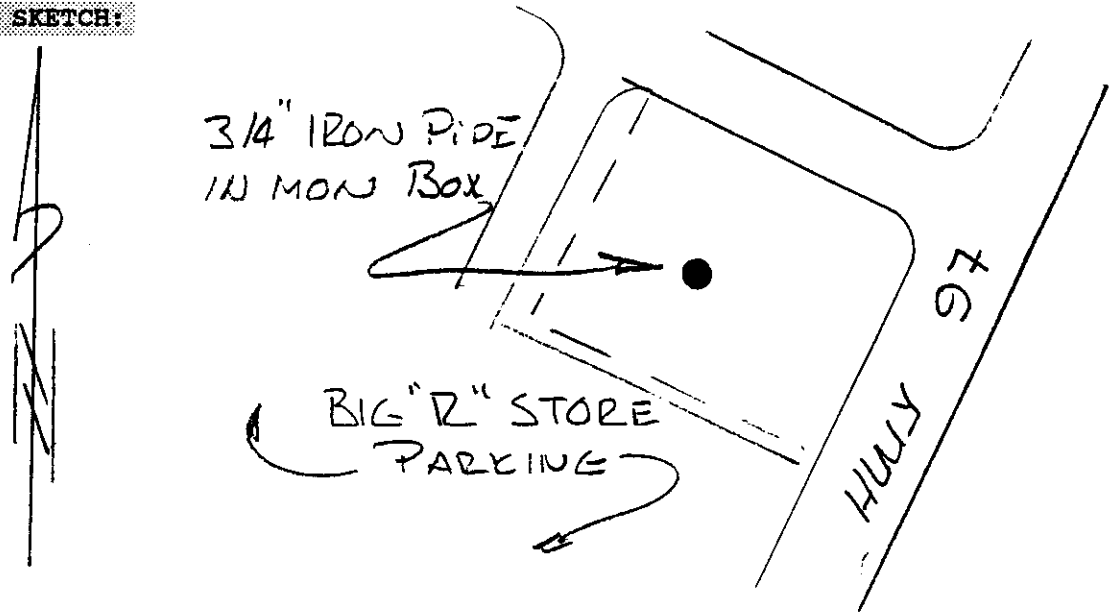
GEODETIC AND MAPPING COORDINATES

MARK: 15132000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'50.867771"	Northing: 454803.543	0.020
Longitude: 121°12'33.695394"	Easting: 3319387.672	0.016
Convergence: +0°03'05.8164"	Ell Height: 3131.22	0.043
Scale Factor: 1.000160429216	Ortho Height: 3196.46	0.051
Combined Factor: 1.00001078	Geoid Height: -65.25	

MARK DATA SHEET

NAME OF MARK: 15132100 **COUNTY:** DESCHUTES
MARK SET BY: LS 1652 ROBERT POVEY **STATE:** OREGON
DATE OF MARK: 1986 **COUNTRY:** U.S.A.
LOCATION: SECTION 21 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1288

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

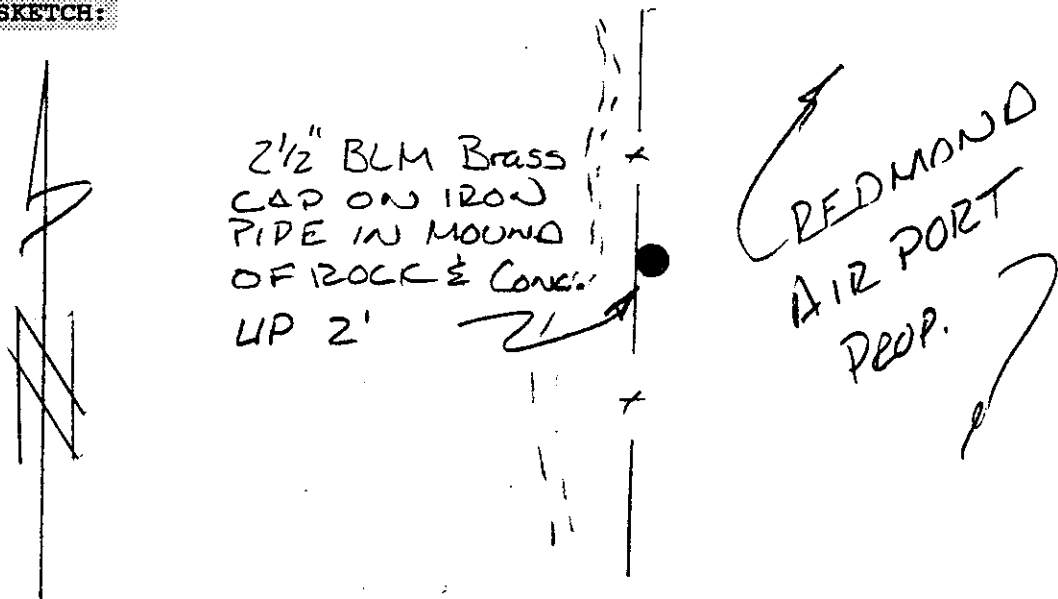
GEODETIC AND MAPPING COORDINATES

MARK: 15132100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'51.157748"	Northing: 454838.373	0.019
Longitude: 121°11'20.492770"	Easting: 3324716.981	0.016
Convergence: +0°03'56.8946"	Ell Height: 2969.65	0.039
Scale Factor: 1.000160697614	Ortho Height: 3034.80	0.048
Combined Factor: 1.00001877	Geoid Height: -65.16	

MARK DATA SHEET

NAME OF MARK: 15132200 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 22 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1275

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

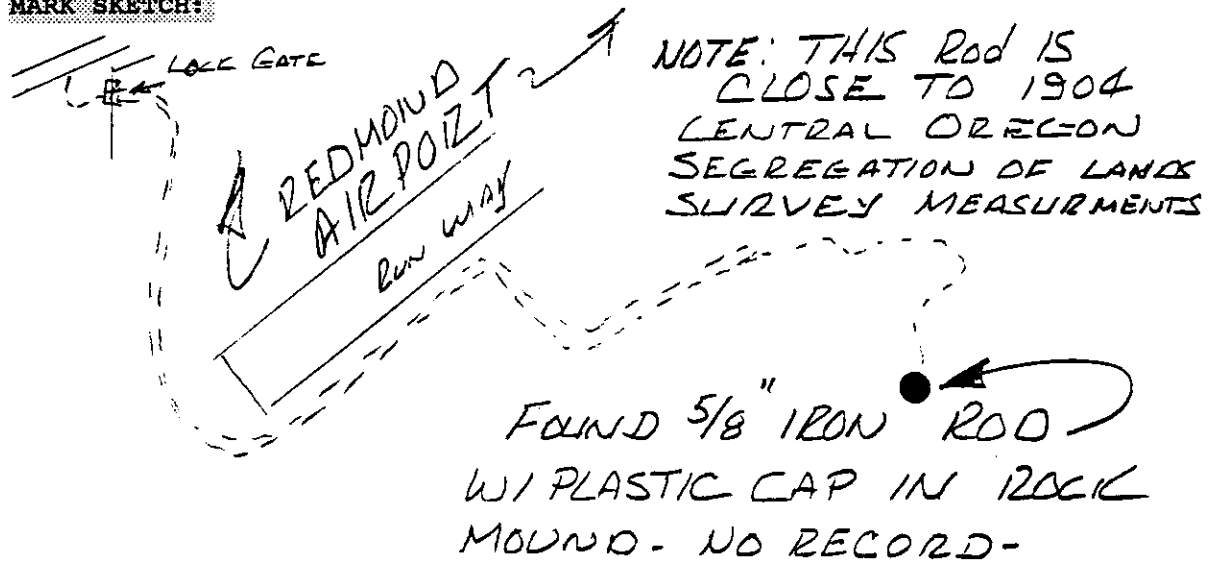
GEODETIC AND MAPPING COORDINATES

MARK: 15132200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'51.049667"	Northing: 454834.146	0.018
Longitude: 121°10'07.892557"	Easting: 3330002.475	0.014
Convergence: +0°04'47.5520"	Ell Height: 3001.86	0.036
Scale Factor: 1.000161027871	Ortho Height: 3066.91	0.046
Combined Factor: 1.00001756	Geoid Height: -65.06	

MARK DATA SHEET

NAME OF MARK: 15132300? **COUNTY:** DESCHUTES
MARK SET BY: N/A **STATE:** OREGON
DATE OF MARK: N/A **COUNTRY:** U.S.A.
LOCATION: SECTION 23 TOWNSHIP 15 S RANGE 13 E
REFERENCE: DGMC 17

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

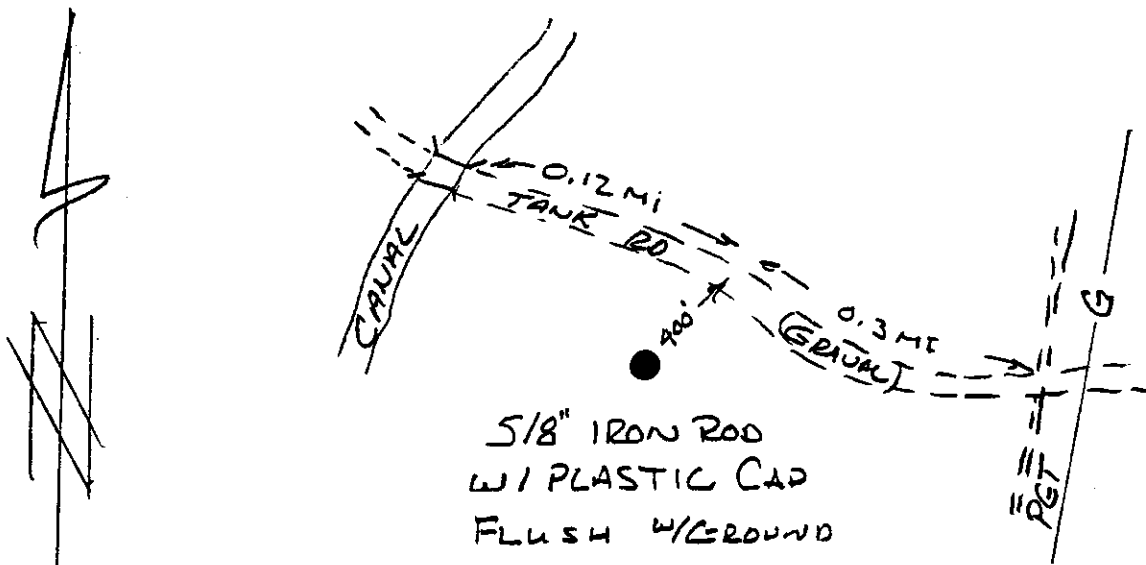
GEODETIC AND MAPPING COORDINATES

MARK: 15132300?	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'50.841227"	Northing: 454821.121	0.017
Longitude: 121°08'54.721577"	Easting: 3335329.544	0.012
Convergence: +0°05'38.6075"	Ell Height: 3021.07	0.032
Scale Factor: 1.000161425282	Ortho Height: 3086.02	0.043
Combined Factor: 1.00001704	Geoid Height: -64.96	

MARK DATA SHEET

NAME OF MARK: 15132400 **COUNTY:** DESCHUTES
MARK SET BY: LS 2527 JERRY STICHLER **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 14 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCHR 1285

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400GSSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

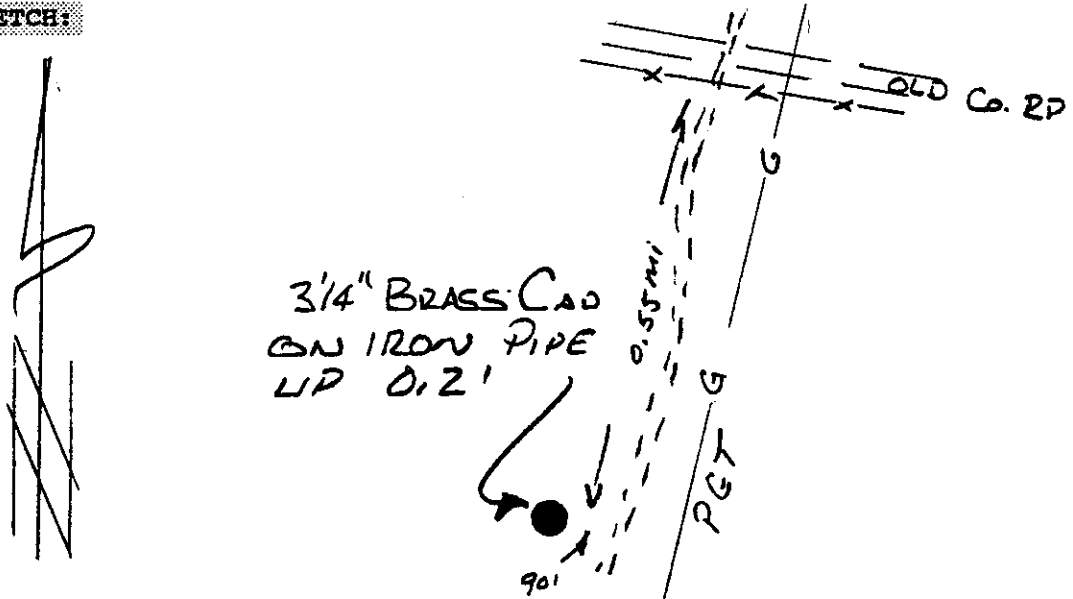
GEODETIC AND MAPPING COORDINATES

MARK: 15132400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'51.210750"	Northing: 454867.781	0.022
Longitude: 121°07'42.790248"	Easting: 3340566.264	0.016
Convergence: +0°06'28.7991"	Ell Height: 3004.93	0.041
Scale Factor: 1.000161879121	Ortho Height: 3069.78	0.050
Combined Factor: 1.00001826	Geoid Height: -64.85	

MARK DATA SHEET

NAME OF MARK: 15132500 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 25 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1215

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

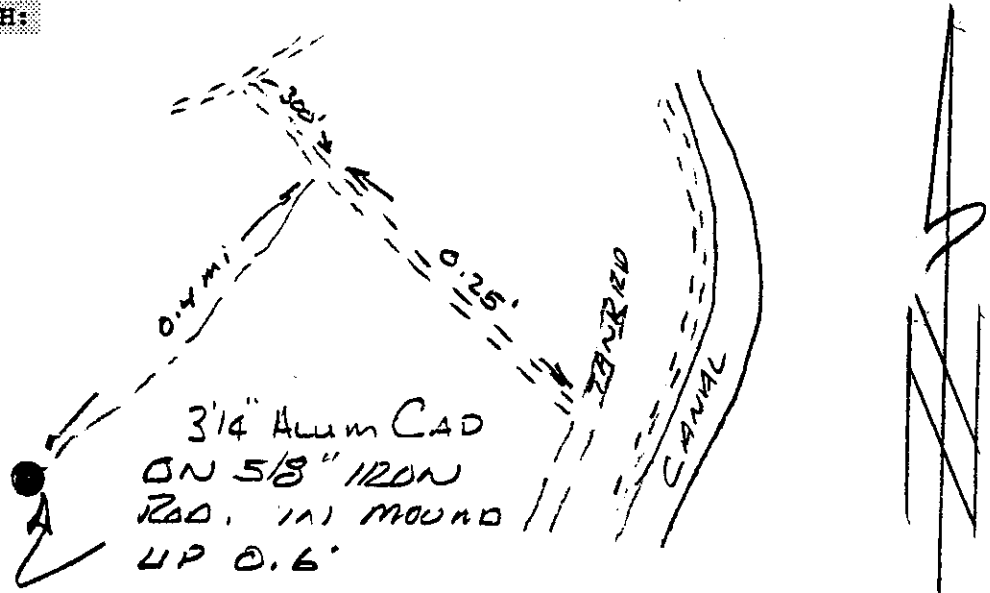
GEODETIC AND MAPPING COORDINATES

MARK: 15132500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.992773"	Northing: 449579.039	0.022
Longitude: 121°07'42.786836"	Easting: 3340576.480	0.016
Convergence: +0°06'28.7005"	Ell Height: 3030.31	0.043
Scale Factor: 1.000161880074	Ortho Height: 3095.12	0.052
Combined Factor: 1.00001705	Geoid Height: -64.80	

MARK DATA SHEET

NAME OF MARK: 15132600 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 26 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1264

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

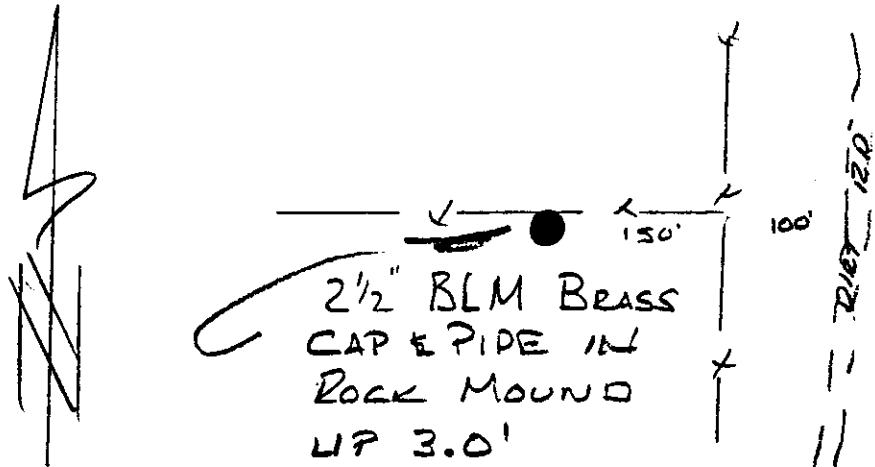
GEODETIC AND MAPPING COORDINATES

MARK: 15132600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.759750"	Northing: 449546.141	0.021
Longitude: 121°08'55.250476"	Easting: 3335299.688	0.015
Convergence: +0°05'38.1508"	Ell Height: 3037.53	0.040
Scale Factor: 1.000161422879	Ortho Height: 3102.44	0.049
Combined Factor: 1.00001625	Geoid Height: -64.91	

MARK DATA SHEET

NAME OF MARK: 15132700 **COUNTY:** DESCHUTES
MARK SET BY: U.S. DEPT. INT. (B L M) **STATE:** OREGON
DATE OF MARK: 1953 **COUNTRY:** U.S.A.
LOCATION: SECTION 27 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1266

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,380,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

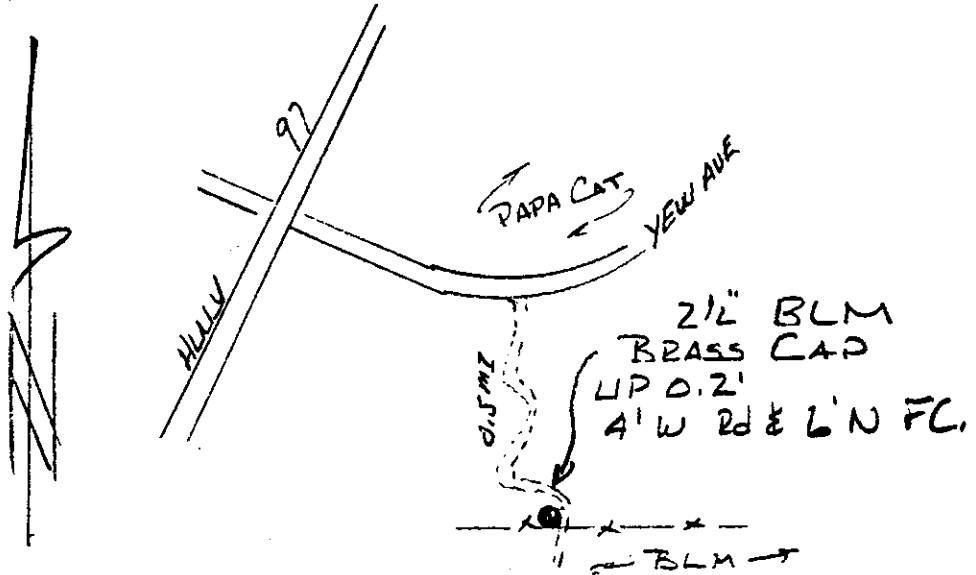
GEODETIC AND MAPPING COORDINATES

MARK: 15132700	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.999686"	Northing: 449562.385	0.020
Longitude: 121°10'08.229102"	Easting: 3329985.316	0.016
Convergence: +0°04'47.2428"	Ell Height: 3014.50	0.041
Scale Factor: 1.000161026699	Ortho Height: 3079.51	0.050
Combined Factor: 1.00001695	Geoid Height: -65.02	

MARK DATA SHEET

NAME OF MARK: 15132800 **COUNTY:** DESCHUTES
MARK SET BY: U.S. DEPT. INT. (B L M) **STATE:** OREGON
DATE OF MARK: 1953 **COUNTRY:** U.S.A.
LOCATION: SECTION 28 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1276

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

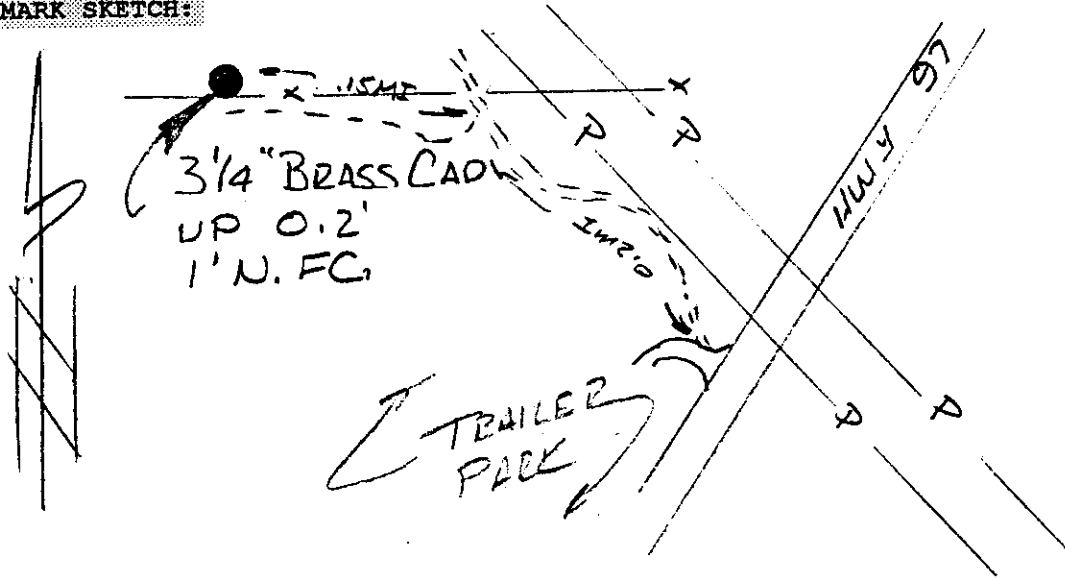
GEODETIC AND MAPPING COORDINATES

MARK: 15132800	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'59.057101"	Northing: 449561.488	0.021
Longitude: 121°11'20.822253"	Easting: 3324699.048	0.017
Convergence: +0°03'56.6033"	Ell Height: 3013.85	0.043
Scale Factor: 1.000160696605	Ortho Height: 3078.96	0.052
Combined Factor: 1.00001665	Geoid Height: -65.12	

MARK DATA SHEET

NAME OF MARK: 15132900 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 29 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1299

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

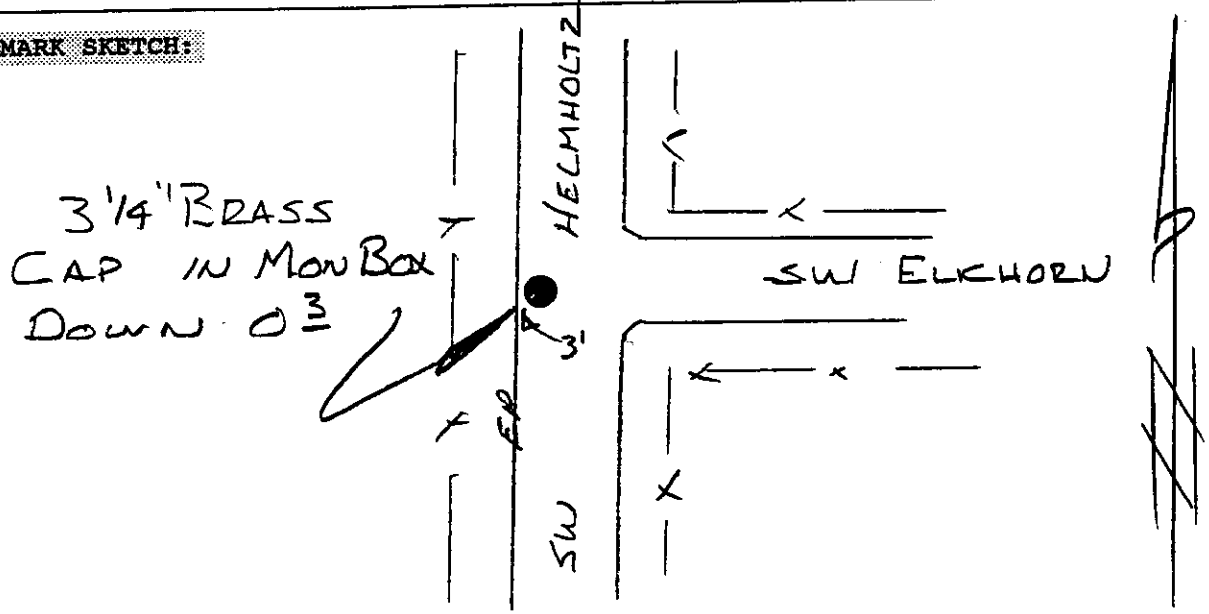
GEODETIC AND MAPPING COORDINATES

MARK: 15132900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.721237"	Northing: 449522.047	0.024
Longitude: 121°12'33.549012"	Easting: 3319403.089	0.018
Convergence: +0°03'05.8703"	Ell Height: 3038.21	0.047
Scale Factor: 1.000160429900	Ortho Height: 3103.42	0.055
Combined Factor: 1.00001522	Geoid Height: -65.21	

MARK DATA SHEET

NAME OF MARK: 15133000 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1213

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

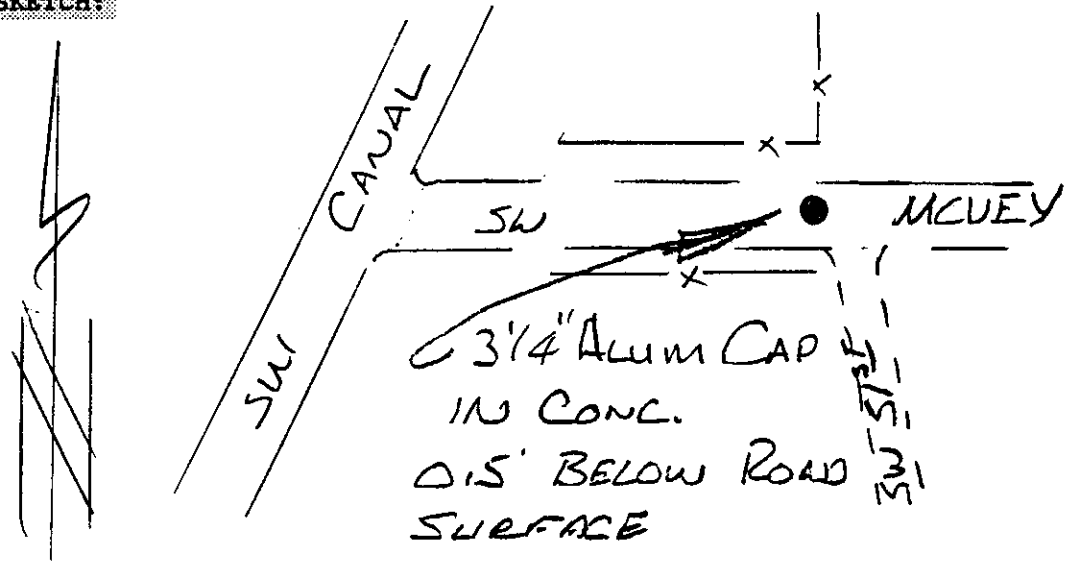
GEODETIC AND MAPPING COORDINATES

MARK: 15133000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.847693"	Northing: 449530.716	0.023
Longitude: 121°13'46.640810"	Easting: 3314080.501	0.020
Convergence: +0°02'14.8831"	Ell Height: 3010.29	0.052
Scale Factor: 1.000160226392	Ortho Height: 3075.58	0.060
Combined Factor: 1.00001635	Geoid Height: -65.29	

MARK DATA SHEET

NAME OF MARK: 15133100 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 31 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1313

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400CSSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

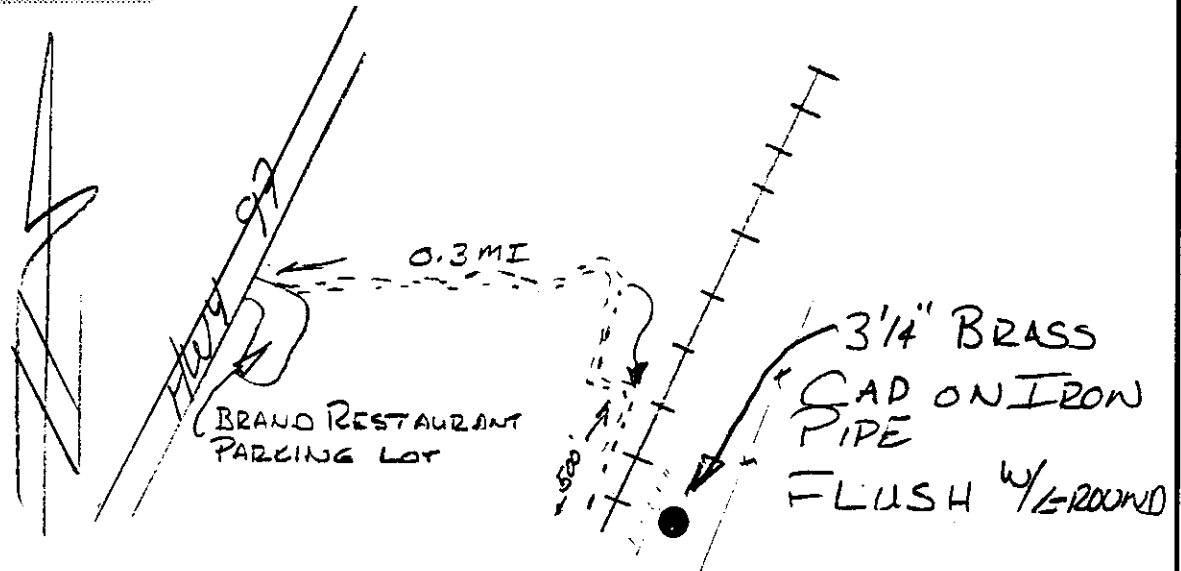
GEODETIC AND MAPPING COORDINATES

MARK: 15133100	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'06.807200"	Northing: 444259.957	0.019
Longitude: 121°13'46.808021"	Easting: 3314071.768	0.015
Convergence: +0°02'14.7316"	Ell Height: 3060.50	0.049
Scale Factor: 1.000160226113	Ortho Height: 3125.76	0.058
Combined Factor: 1.00001395	Geoid Height: -65.25	

MARK DATA SHEET

NAME OF MARK: 15133200 **COUNTY:** DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 32 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1311

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

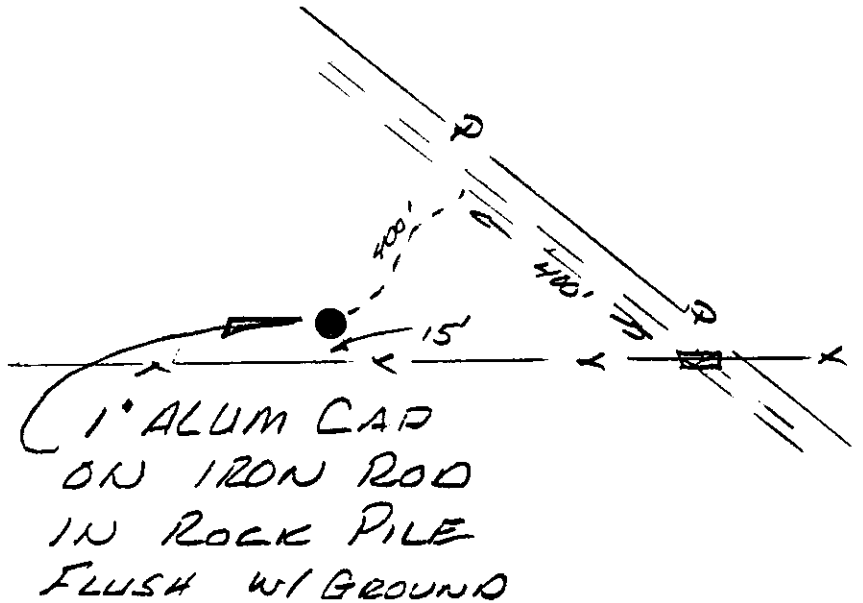
GEODETIC AND MAPPING COORDINATES

MARK: 15133200	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'06.822194"	Northing: 444265.575	0.024
Longitude: 121°12'34.261302"	Easting: 3319355.943	0.020
Convergence: +0°03'05.3255"	Ell Height: 3060.81	0.057
Scale Factor: 1.000160427815	Ortho Height: 3125.98	0.064
Combined Factor: 1.00001414	Geoid Height: -65.16	

MARK DATA SHEET

NAME OF MARK: 15133300 **COUNTY:** DESCHUTES
MARK SET BY: LS 1081 JEFFREY KERN **STATE:** OREGON
DATE OF MARK: 1979 **COUNTRY:** U.S.A.
LOCATION: SECTION 33 TOWNSHIP 15 S RANGE 13 E
REFERENCE: CS 1431

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

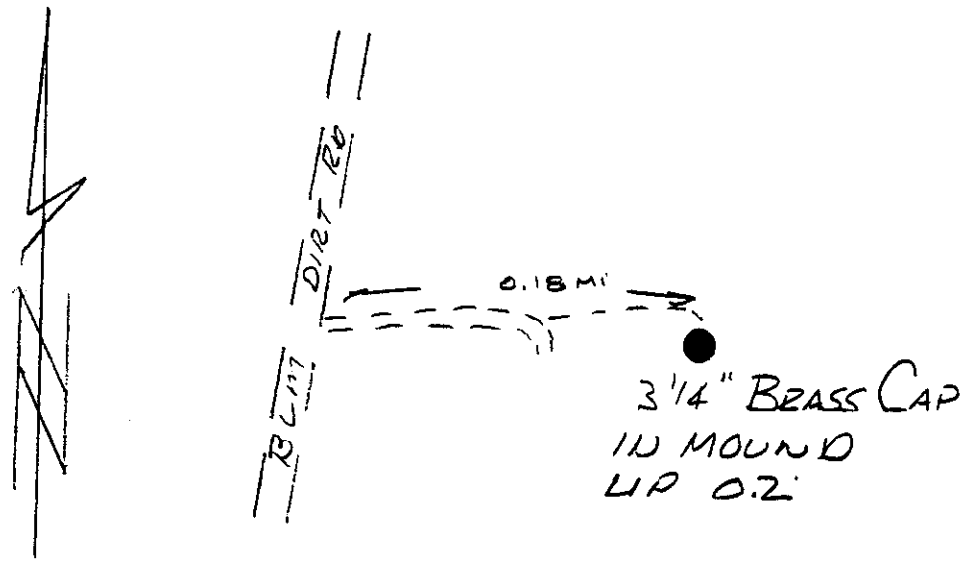
GEODETIC AND MAPPING COORDINATES

MARK: 15133300	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'05.896066"	Northing: 444278.484	0.027
Longitude: 121°11'21.340870"	Easting: 3324667.332	0.020
Convergence: +0°03'56.1802"	Ell Height: 3049.44	0.058
Scale Factor: 1.000160694819	Ortho Height: 3114.51	0.065
Combined Factor: 1.00001495	Geoid Height: -65.07	

MARK DATA SHEET

NAME OF MARK: 15133400 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 34 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1294

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

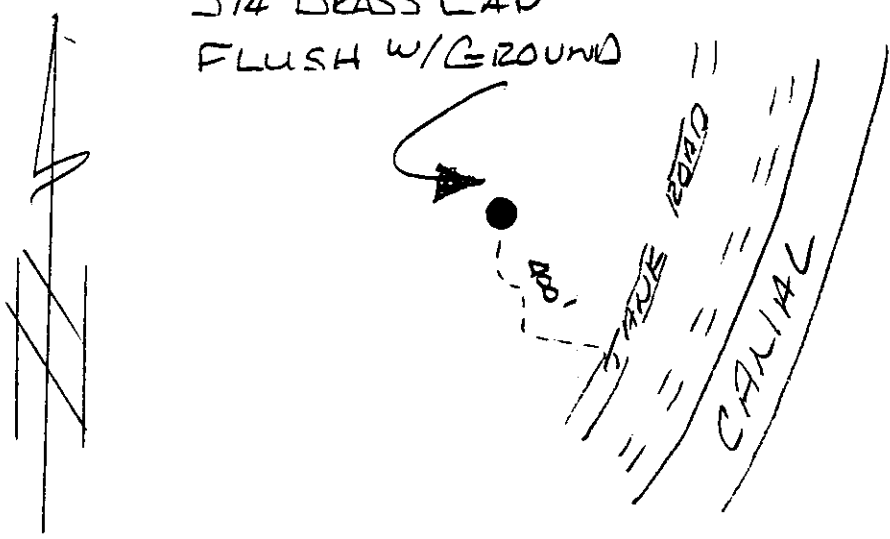
GEODETIC AND MAPPING COORDINATES

MARK: 15133400	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'06.981428"	Northing: 444293.845	0.024
Longitude: 121°10'08.625656"	Easting: 3329963.768	0.019
Convergence: +0°04'46.8918"	Ell Height: 3045.64	0.051
Scale Factor: 1.000161025228	Ortho Height: 3110.60	0.058
Combined Factor: 1.00001546	Geoid Height: -64.97	

MARK DATA SHEET

NAME OF MARK: 15133500 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 35 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1293

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

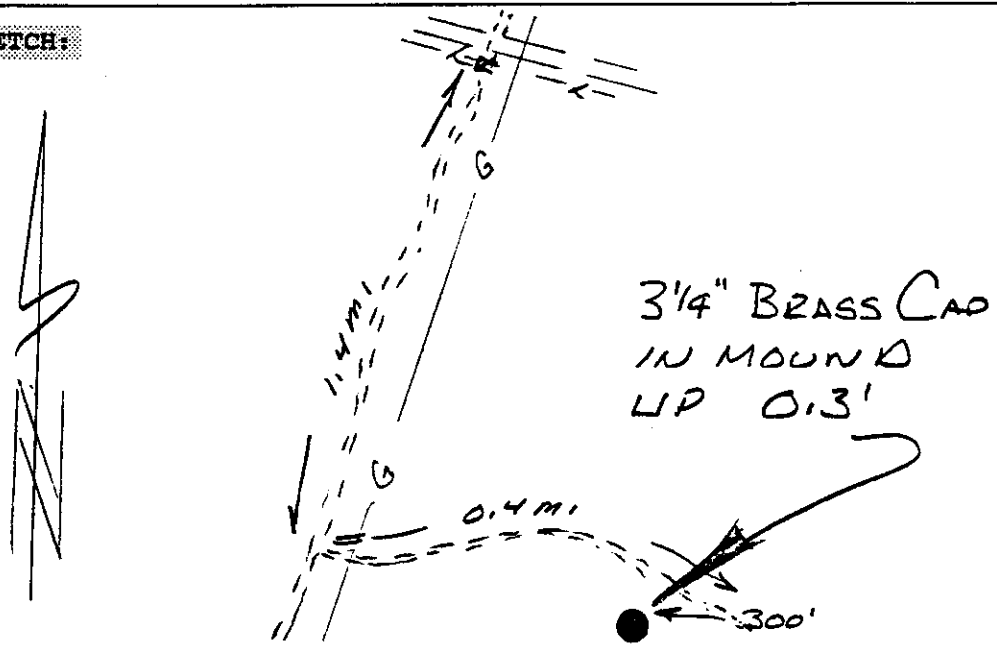
GEODETIC AND MAPPING COORDINATES

MARK: 15133500	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'06.839544"	Northing: 444287.471	0.023
Longitude: 121°08'56.092691"	Easting: 3335246.962	0.017
Convergence: +0°05'37.4760"	Ell Height: 3046.15	0.048
Scale Factor: 1.000161418636	Ortho Height: 3111.01	0.056
Combined Factor: 1.00001583	Geoid Height: -64.86	

MARK DATA SHEET

NAME OF MARK: 15133600 **COUNTY:** DESCHUTES
MARK SET BY: LS 2282 KENNETH L. GRANTHAM **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 36 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCCR 1295

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

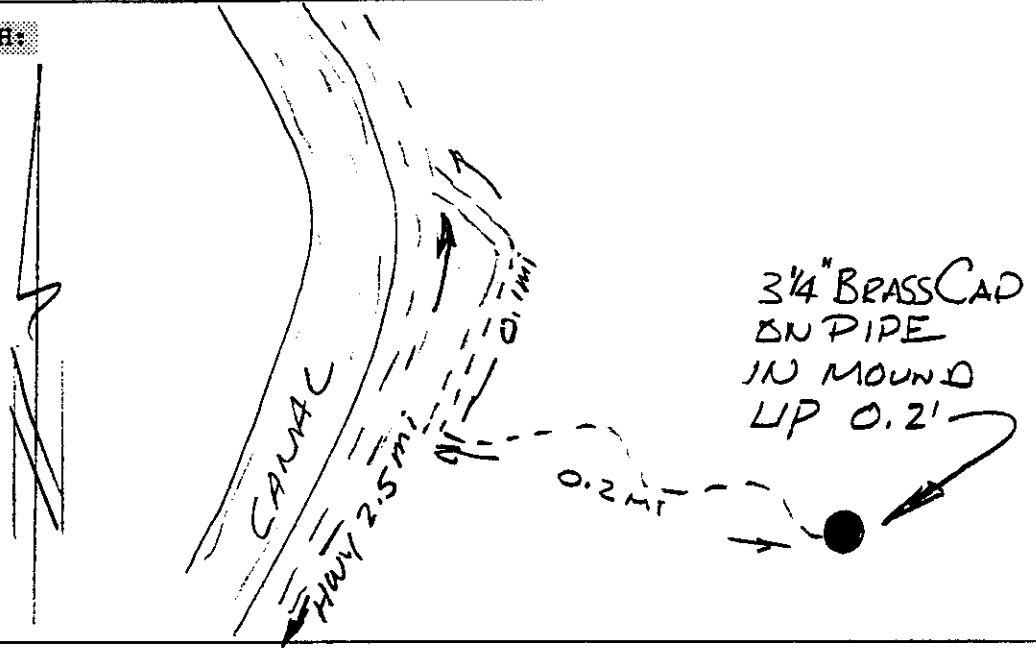
GEODETIC AND MAPPING COORDINATES

MARK: 15133600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'06.683323"	Northing: 444280.964	0.025
Longitude: 121°07'43.389314"	Easting: 3340542.579	0.017
Convergence: +0°06'28.1790"	Ell Height: 3052.43	0.050
Scale Factor: 1.000161876941	Ortho Height: 3117.17	0.058
Combined Factor: 1.00001599	Geoid Height: -64.74	

MARK DATA SHEET

NAME OF MARK: 15140600 **COUNTY:** CROOK
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 6 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1260

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

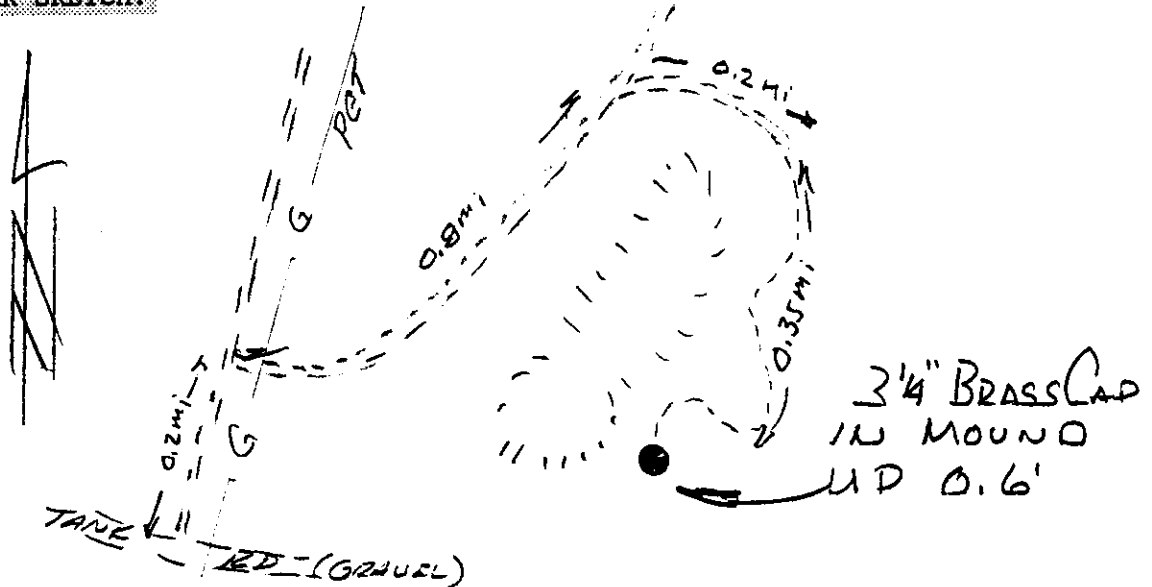
GEODETIC AND MAPPING COORDINATES

MARK: 15140600	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°17'27.894760"	Northing: 470747.855	0.021
Longitude: 121°06'29.484040"	Easting: 3345869.278	0.017
Convergence: +0°07'20.2925"	Ell Height: 2921.90	0.044
Scale Factor: 1.000162402505	Ortho Height: 2986.76	0.053
Combined Factor: 1.00002275	Geoid Height: -64.86	

MARK DATA SHEET

NAME OF MARK: 15141900 **COUNTY:** CROOK
MARK SET BY: LS 1031 W. C. KAUFFMAN **STATE:** OREGON
DATE OF MARK: 1994 **COUNTRY:** U.S.A.
LOCATION: SECTION 19 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1261

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

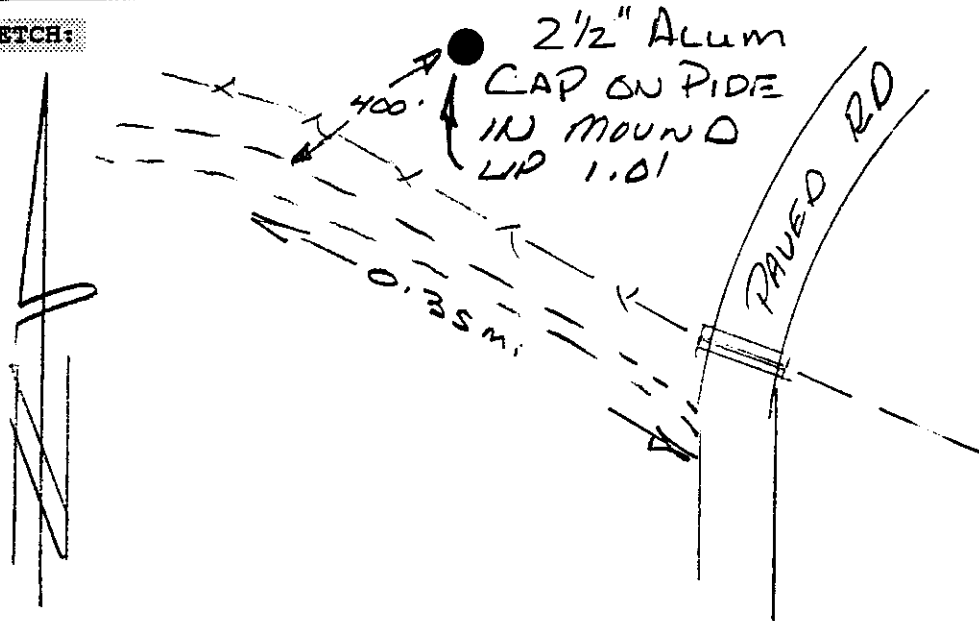
GEODETIC AND MAPPING COORDINATES

MARK: 15141900	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°14'51.107643"	Northing: 454867.951	0.016
Longitude: 121°06'30.182072"	Easting: 3345852.343	0.012
Convergence: +0°07'19.4622"	Ell Height: 3019.52	0.035
Scale Factor: 1.000162400756	Ortho Height: 3084.26	0.045
Combined Factor: 1.00001809	Geoid Height: -64.74	

MARK DATA SHEET

NAME OF MARK: 15143000 **COUNTY:** CROOK
MARK SET BY: LS 1026 DAVID ARMSTRONG **STATE:** OREGON
DATE OF MARK: 1993 **COUNTRY:** U.S.A.
LOCATION: SECTION 30 TOWNSHIP 15 S RANGE 13 E
REFERENCE: OCRR 1304

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

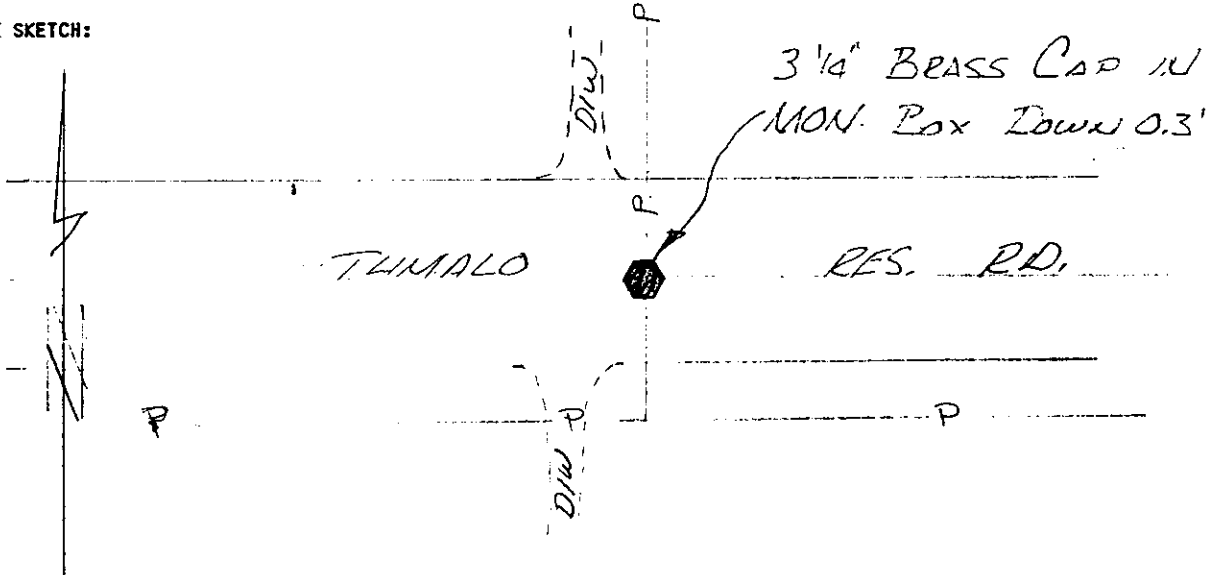
GEODETIC AND MAPPING COORDINATES

MARK: 15143000	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°13'58.865055"	Northing: 449576.663	0.021
Longitude: 121°06'30.523085"	Easting: 3345838.783	0.017
Convergence: +0°07'19.1100"	Ell Height: 3027.48	0.051
Scale Factor: 1.000162399345	Ortho Height: 3092.17	0.059
Combined Factor: 1.0000177	Geoid Height: -64.69	

CONTROL MARK DATA

NAME OF MARK: 16113500 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 08/18/92 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1143

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

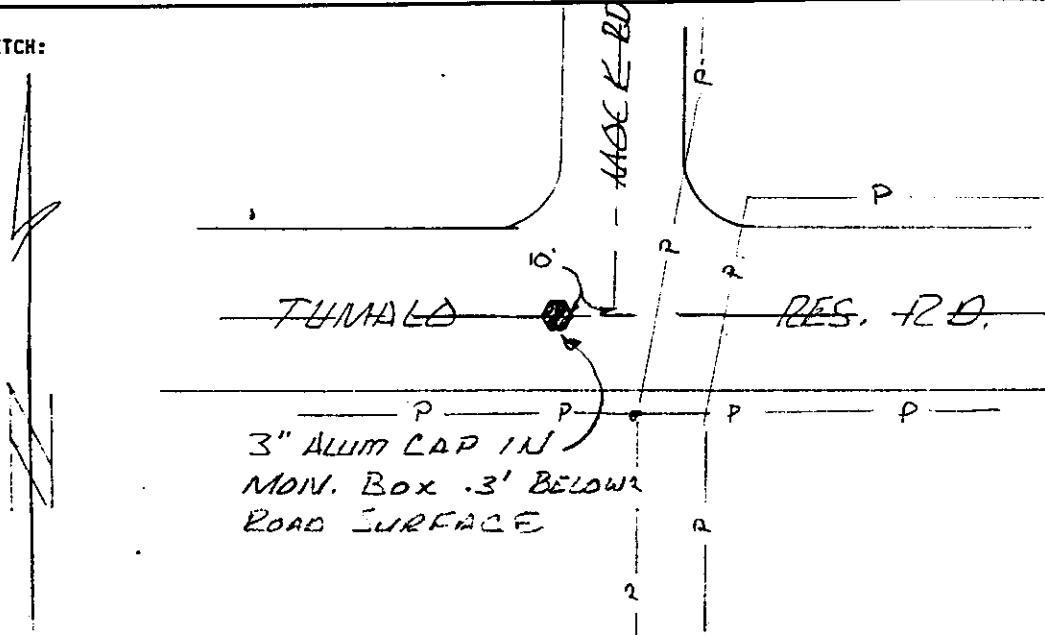
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16113500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.660529"	ONE SIGMA ERROR
Longitude:	121°23'00.929229"	
Northing:	414986.3658	0.011
Easting:	3273674.8308	0.011
Convergence:	-0°04'11.3483"	
Scale Factor:	1.000160791367	
Ellipsoid Height:	3410.0277	0.015
Orthometric Height:	3475.0719	0.019
Geoid Height:	-65.0442	

CONTROL MARK DATA

NAME OF MARK: 16113600 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 7/1983 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 16 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 7434

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

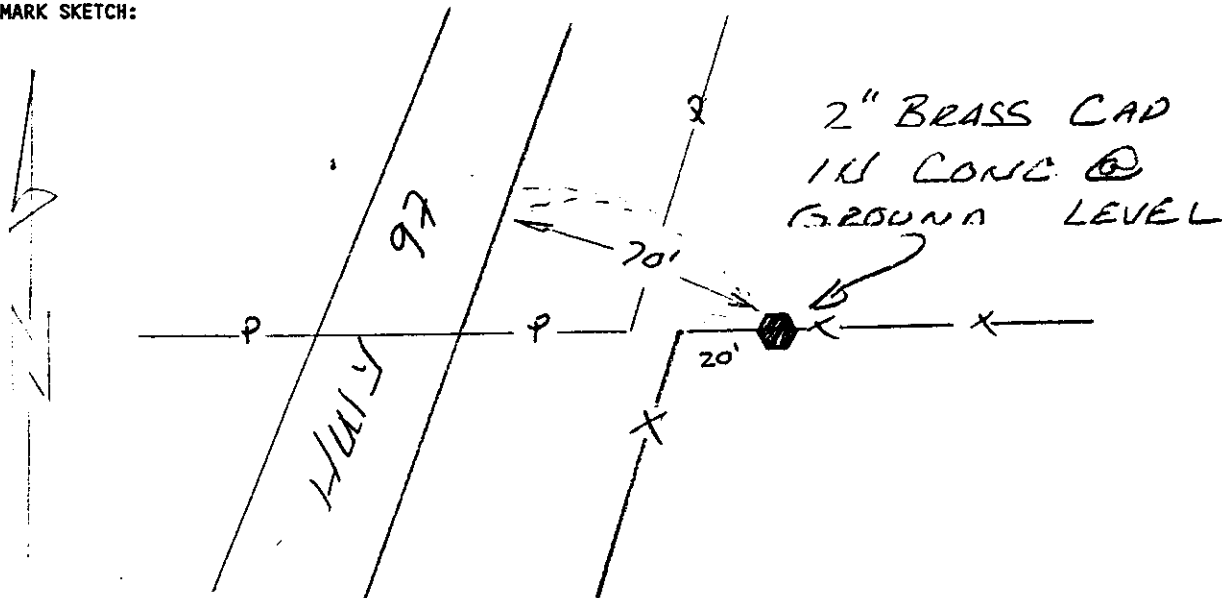
MARK: 16113600 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.681910"	ONE SIGMA ERROR
Longitude:	121°21'48.920929"	
Northing:	414982.7697	0.013
Easting:	3278926.9171	0.013
Convergence:	-0°03'21.2023"	
Scale Factor:	1.000160507098	
Ellipsoid Height:	3318.2868	0.018
Orthometric Height:	3383.3785	0.021
Geoid Height:	-65.0917	

CONTROL MARK DATA

NAME OF MARK: 16122600 COUNTY: DESCHUTES
 MARK SET BY: LS 0654 NORMAN NEWTON STATE: OREGON
 DATE OF MARK: 3/15/67 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 858

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 16122600 HORIZONTAL ORDER: FIRST

Latitude:	44°09'09.791988"	ONE SIGMA ERROR
Longitude:	121°15'49.169051"	
Northing:	420250.8344	0.011
Easting:	3305164.9486	0.011
Convergence:	+0°00'49.3389"	
Scale Factor:	1.000160030463	
Ellipsoid Height:	3205.9743	0.021
Orthometric Height:	3271.003	0.034
Geoid Height:	-65.0287	

CONTROL MARK DATA

NAME OF MARK: 16122604 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1/20/78 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 840

MARK SKETCH:

2" BRASS CAP
 IN CONC., 1.5 FT.
 BELOW GROUND
 4' WEST OF EDGE
 OF PAVEMENT



DESCHUTES MET ROAD



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

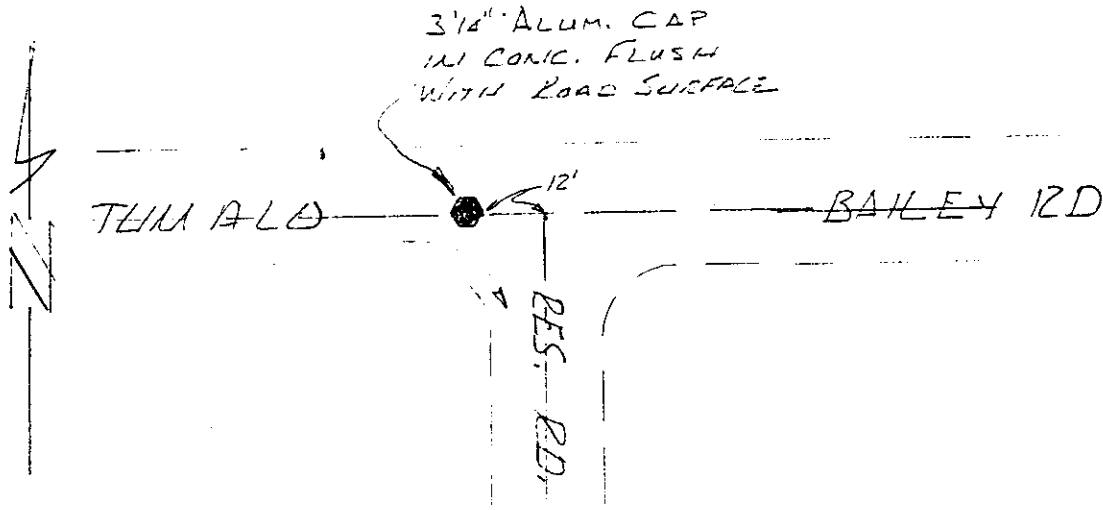
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16122604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°09'09.824485"	ONE SIGMA ERROR
Longitude:	121°15'12.888232"	
Northing:	420254.9206	0.012
Easting:	3307810.5221	0.011
Convergence:	+0°01'14.6112"	
Scale Factor:	1.000160069662	
Ellipsoid Height:	3206.4917	0.020
Orthometric Height:	3271.4855	0.033
Geoid Height:	-64.9938	

CONTROL MARK DATA

NAME OF MARK: 16123100 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
DATE OF MARK: 1/04/90 COUNTRY: U.S.A.
LOCATION: SECTION 31 TOWNSHIP 16S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1015

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

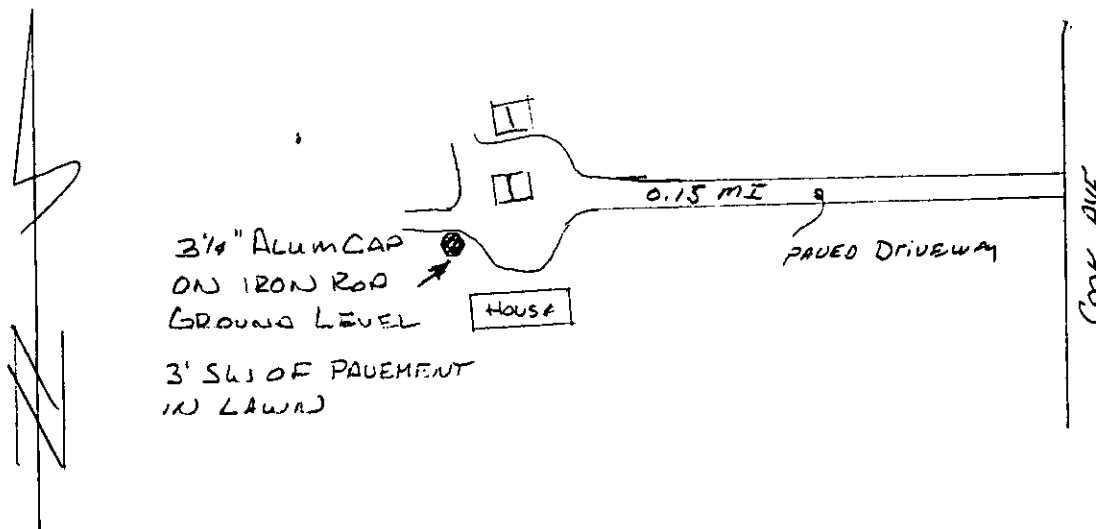
MARK: 16123100 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.602777"	ONE SIGMA ERROR
Longitude:	121°20'36.087586"	
Northing:	414970.2263	0.010
Easting:	3284239.1713	0.010
Convergence:	-0°02'30.4816"	
Scale Factor:	1.000160283657	
Ellipsoid Height:	3309.4928	0.015
Orthometric Height:	3374.5971	0.019
Geoid Height:	-65.1044	

CONTROL MARK DATA

NAME OF MARK: 16123104 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 16S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

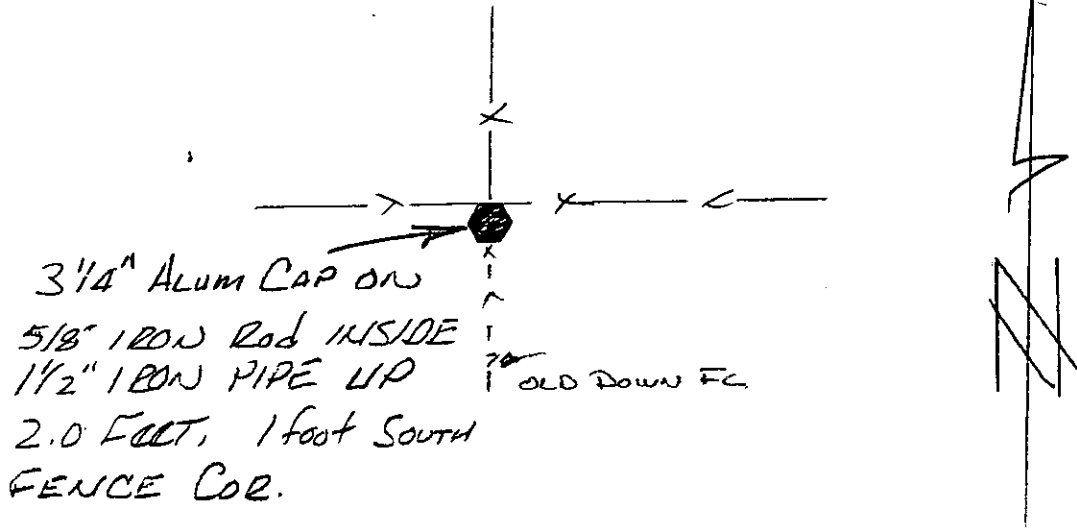
MARK: 16123104 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.502343"	ONE SIGMA ERROR
Longitude:	121°20'02.348104"	
Northing:	414958.3992	0.015
Easting:	3286700.0292	0.013
Convergence:	-0°02'06.9857"	
Scale Factor:	1.000160201993	
Ellipsoid Height:	3132.3386	0.022
Orthometric Height:	3197.4386	0.025
Geoid Height:	-65.1	

CONTROL MARK DATA

NAME OF MARK: 16123200 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 110

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

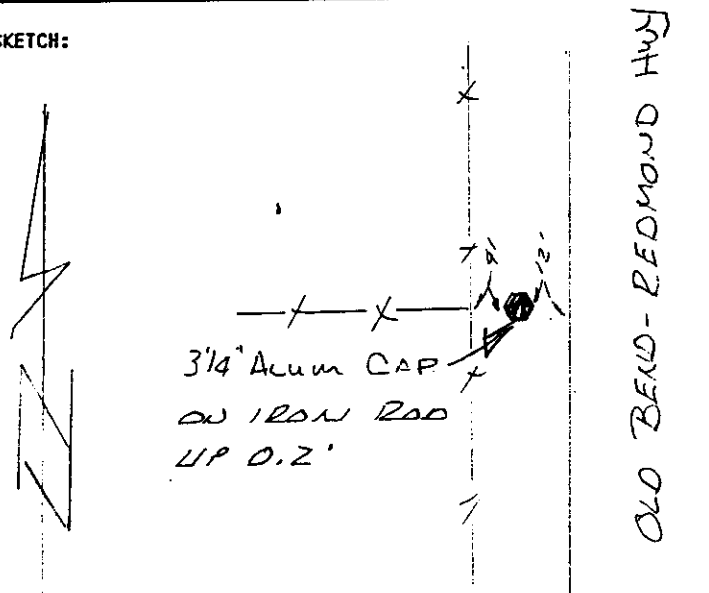
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16123200</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°08'17.459191"	ONE SIGMA ERROR
Longitude:	121°19'26.184113"	
Northing:	414952.5659	0.012
Easting:	3289337.7295	0.011
Convergence:	-0°01'41.8013"	
Scale Factor:	1.000160129818	
Ellipsoid Height:	3249.6965	0.018
Orthometric Height:	3314.7733	0.022
Geoid Height:	-65.0767	

CONTROL MARK DATA

NAME OF MARK: 16123204 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 16S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 111

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

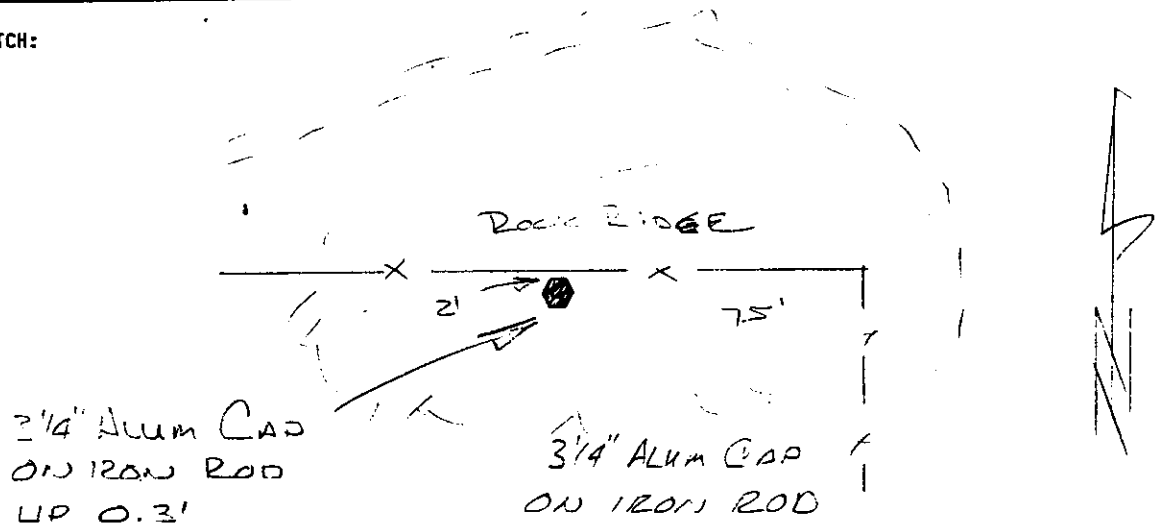
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16123204</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.470308"	ONE
Longitude:	121°18'50.017835"	SIGMA
Northing:	414952.5509	ERROR
Easting:	3291975.5996	0.017
Convergence:	-0°01'16.6155"	0.014
Scale Factor:	1.000160073529	
Ellipsoid Height:	3266.4354	0.023
Orthometric Height:	3331.4954	0.026
Geoid Height:	-65.06	

CONTROL MARK DATA

NAME OF MARK: 16123300 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 112

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

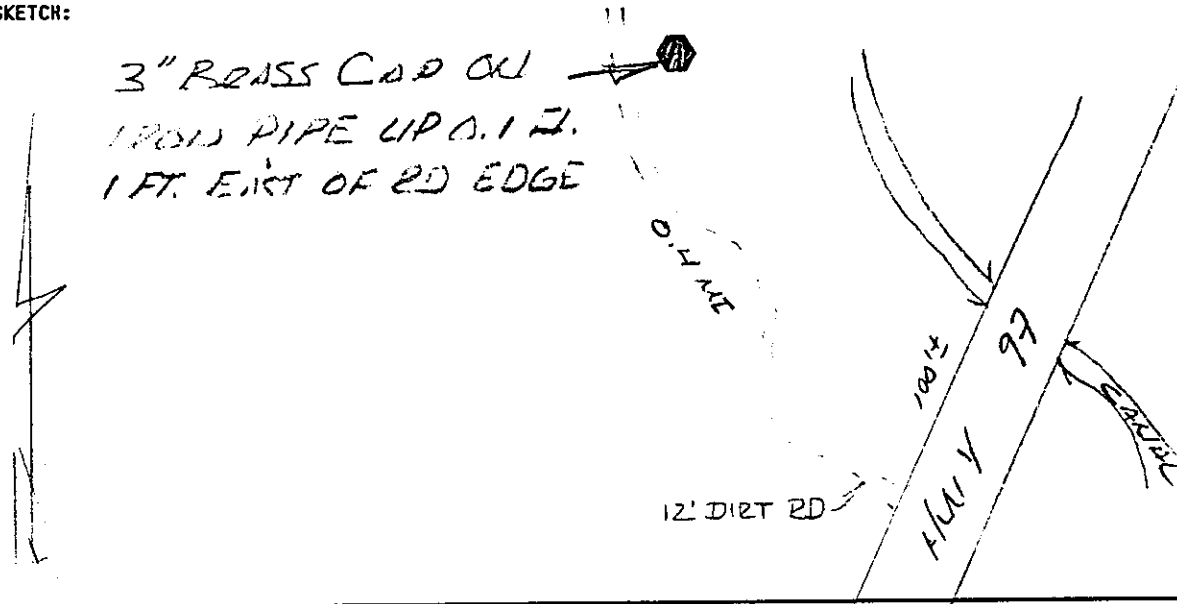
MARK: 16123300 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.481471"	ONE
Longitude:	121°18'13.838507"	SIGMA
Northing:	414952.8626	ERROR
Easting:	3294614.4213	0.008
Convergence:	-0°00'51.4205"	0.008
Scale Factor:	1.000160033121	
Ellipsoid Height:	3307.564	0.011
Orthometric Height:	3372.6037	0.015
Geoid Height:	-65.0397	

CONTROL MARK DATA

NAME OF MARK: 16123400 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1188

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

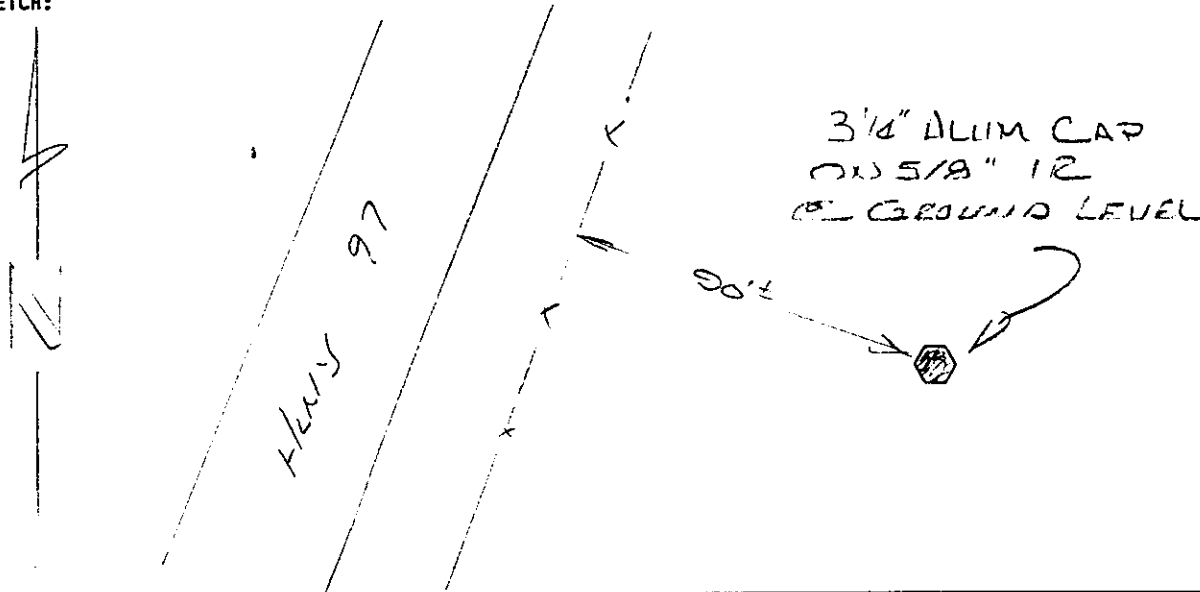
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16123400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.463002"	ONE SIGMA ERROR
Longitude:	121°17'01.482564"	
Northing:	414950.321	0.015
Easting:	3299891.8658	0.013
Convergence:	-0°00'01.0324"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3280.0454	0.029
Orthometric Height:	3345.0343	0.040
Geoid Height:	-64.9889	

CONTROL MARK DATA

NAME OF MARK: 16123404 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 115

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

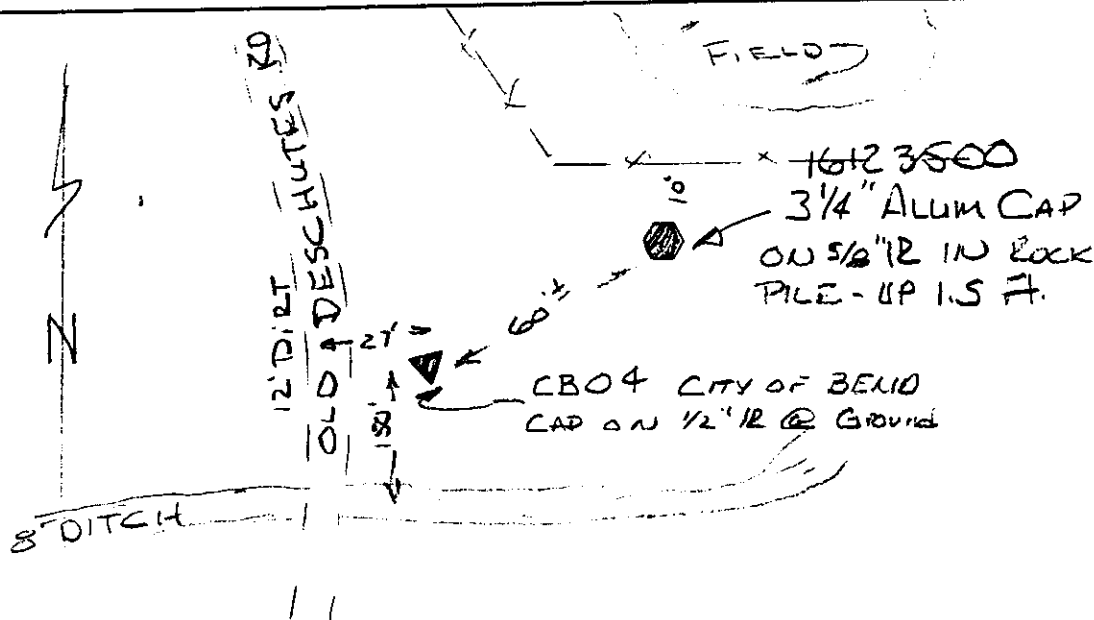
GEODITIC AND MAPPING COORDINATES

<u>MARK: 16123404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.514322"	ONE SIGMA ERROR
Longitude:	121°16'25.179940"	
Northing:	414955.6677	0.020
Easting:	3302539.6796	0.016
Convergence:	+0°00'24.2484"	
Scale Factor:	1.000160007365	
Ellipsoid Height:	3257.0281	0.036
Orthometric Height:	3321.9853	0.045
Geoid Height:	-64.9572	

CONTROL MARK DATA

NAME OF MARK: 16123500 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 116

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

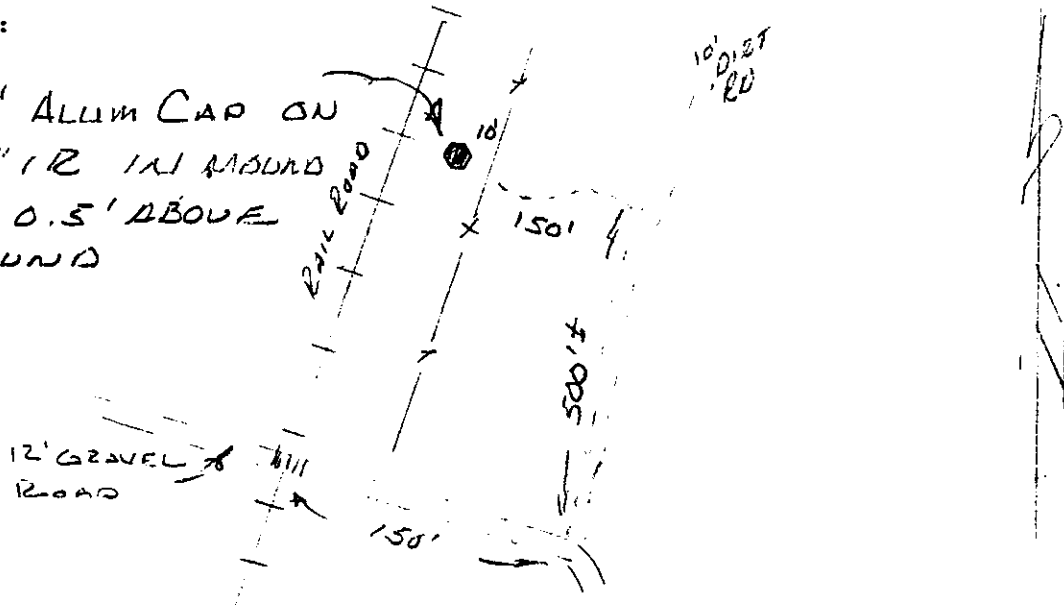
<u>MARK:</u> <u>16123500</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°08'17.654016"	ONE SIGMA ERROR
Longitude:	121°15'49.137469"	
Northing:	414970.2849	0.024
Easting:	3305168.5151	0.041
Convergence:	+0°00'49.3481"	
Scale Factor:	1.000160030505	
Ellipsoid Height:	3248.0576	0.035
Orthometric Height:	3312.9831	0.035
Geoid Height:	-64.9255	

CONTROL MARK DATA

NAME OF MARK: 16123540 COUNTY: DESCHUTES
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 10/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 841

MARK SKETCH:

3/4" ALUM CAP ON
 5/8" IR IR MOUND
 UP 0.5' ABOVE
 GROUND



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

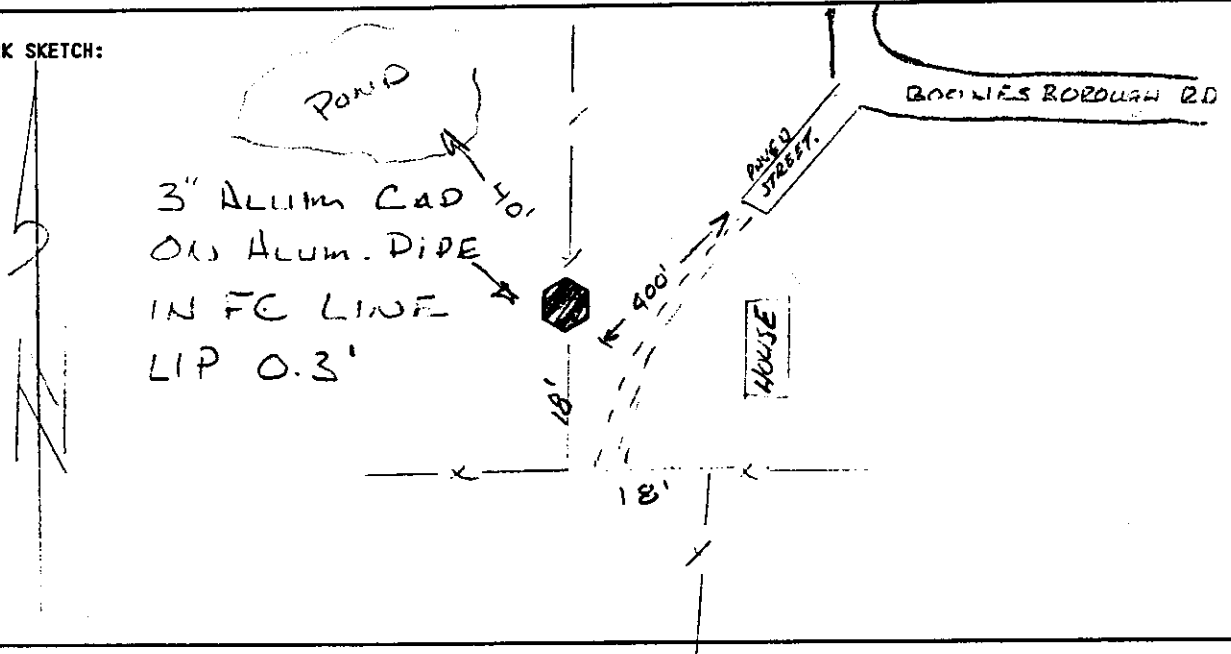
GEODITIC AND MAPPING COORDINATES

MARK: <u>16123540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°08'43.724248"</u>	ONE SIGMA ERROR
Longitude:	<u>121°15'49.156823"</u>	
Northing:	<u>417610.6841</u>	<u>0.013</u>
Easting:	<u>3305166.4719</u>	<u>0.011</u>
Convergence:	<u>+0°00'49.3410"</u>	
Scale Factor:	<u>1.000160030481</u>	
Ellipsoid Height:	<u>3230.3694</u>	<u>0.023</u>
Orthometric Height:	<u>3295.3482</u>	<u>0.035</u>
Geoid Height:	<u>-64.9788</u>	

CONTROL MARK DATA

NAME OF MARK: 16123600 COUNTY: DESCHUTES
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 91

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

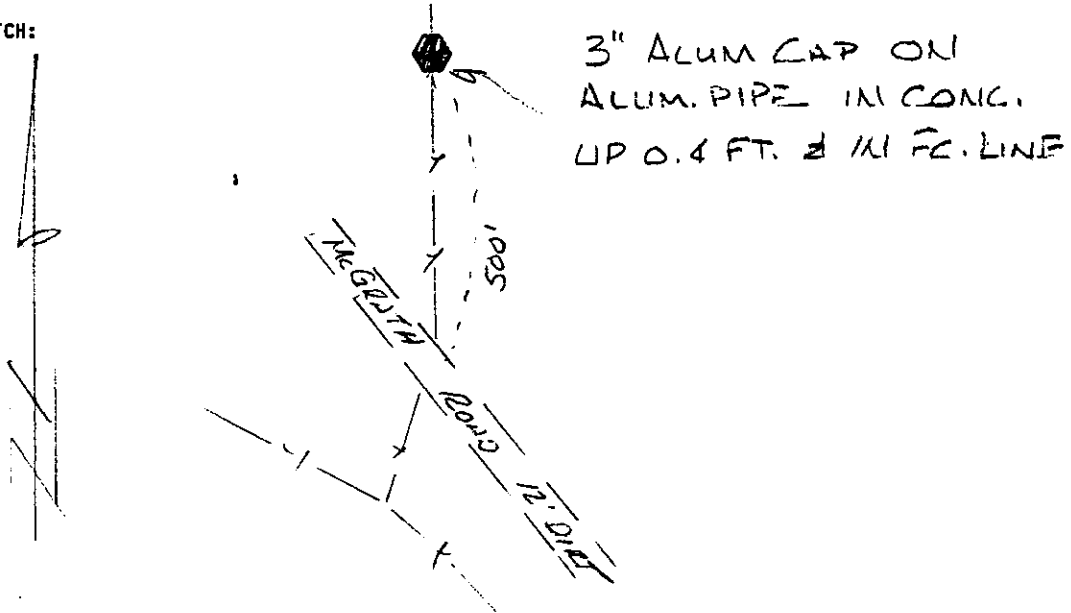
MARK: 16123600 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°08'17.831751"	
Longitude:	121°14'36.583312"	
Northing:	414990.2001	0.013
Easting:	3310460.4038	0.011
Convergence:	+0°01'39.8743"	
Scale Factor:	1.000160124949	
Ellipsoid Height:	3224.5499	0.025
Orthometric Height:	3289.412	0.036
Geoid Height:	-64.8621	

CONTROL MARK DATA

NAME OF MARK: 16133100 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 16 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 93

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

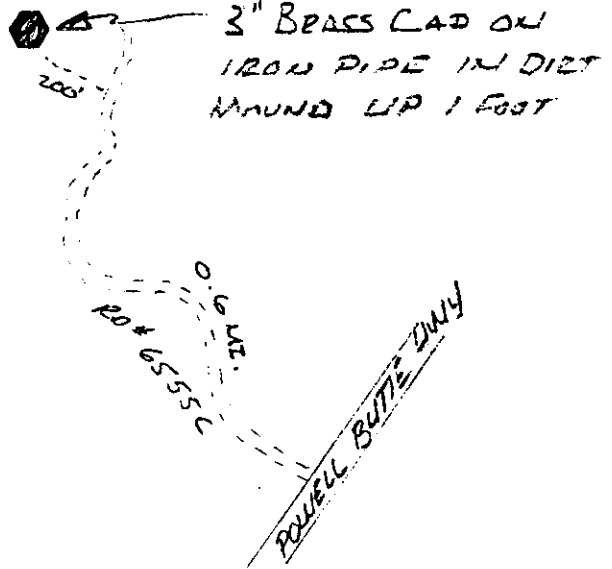
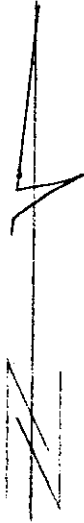
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>16133100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.402709"	ONE SIGMA ERROR
Longitude:	121°13'24.292182"	
Northing:	414949.9432	0.017
Easting:	3315733.1442	0.015
Convergence:	+0°02'30.2170"	
Scale Factor:	1.000160282661	
Ellipsoid Height:	3267.8611	0.035
Orthometric Height:	3332.6502	0.044
Geoid Height:	-64.789	

CONTROL MARK DATA

NAME OF MARK: 16133400 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1194

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

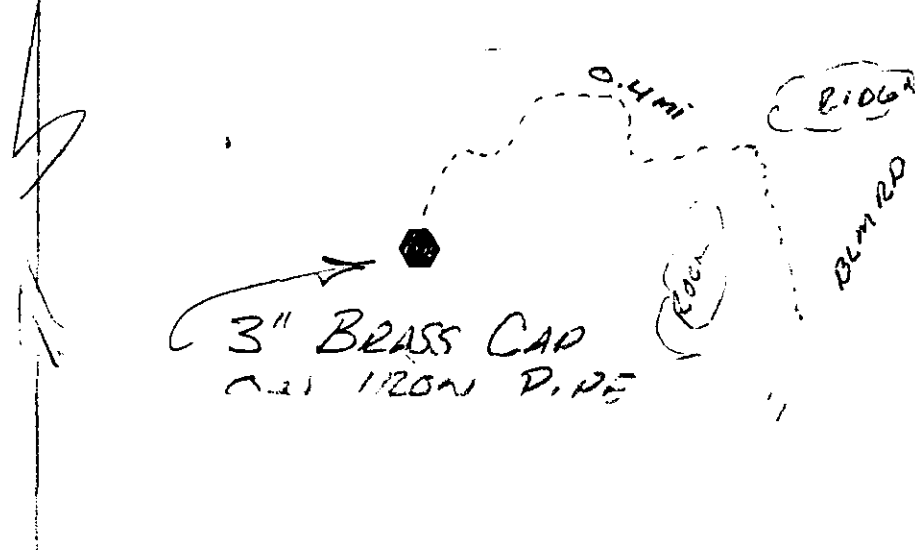
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>16133400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.126968"	ONE SIGMA ERROR
Longitude:	121°09'47.412253"	
Northing:	414939.3278	0.020
Easting:	3331551.8204	0.015
Convergence:	+0°05'01.2500"	
Scale Factor:	1.000161136801	
Ellipsoid Height:	3268.6574	0.041
Orthometric Height:	3333.168	0.048
Geoid Height:	-64.5105	

CONTROL MARK DATA

NAME OF MARK: 16143100 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 16 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1193

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

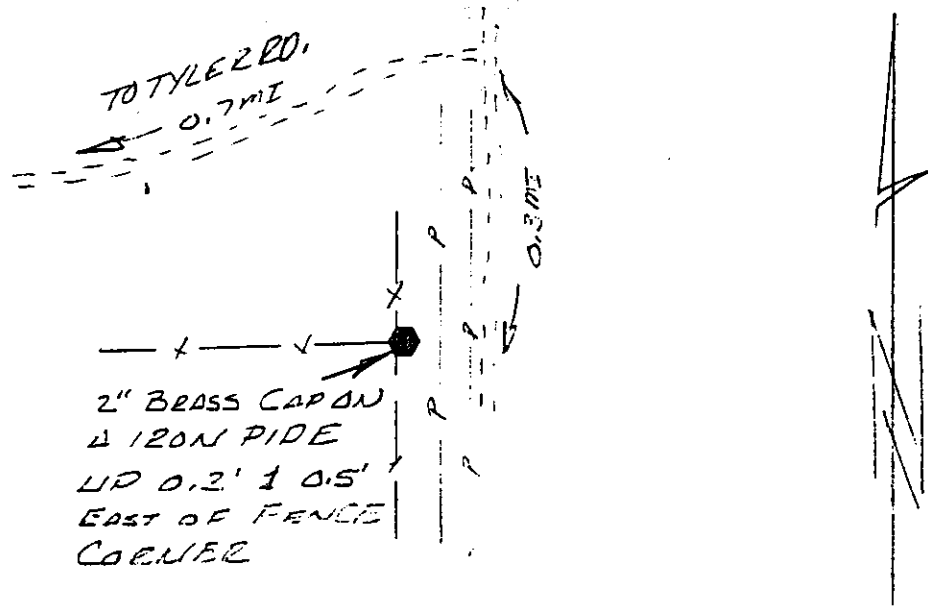
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>16143100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.249921"	ONE SIGMA ERROR
Longitude:	121°06'09.979261"	
Northing:	414980.7637	0.021
Easting:	3347410.789	0.016
Convergence:	+0°07'32.6690"	
Scale Factor:	1.000162566791	
Ellipsoid Height:	3244.4849	0.043
Orthometric Height:	3308.6512	0.050
Geoid Height:	-64.1663	

CONTROL MARK DATA

NAME OF MARK: 17110100 COUNTY: DESCHUTES
 MARK SET BY: U.S. GOVERNMENT ? STATE: OREGON
 DATE OF MARK: 1915+- COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

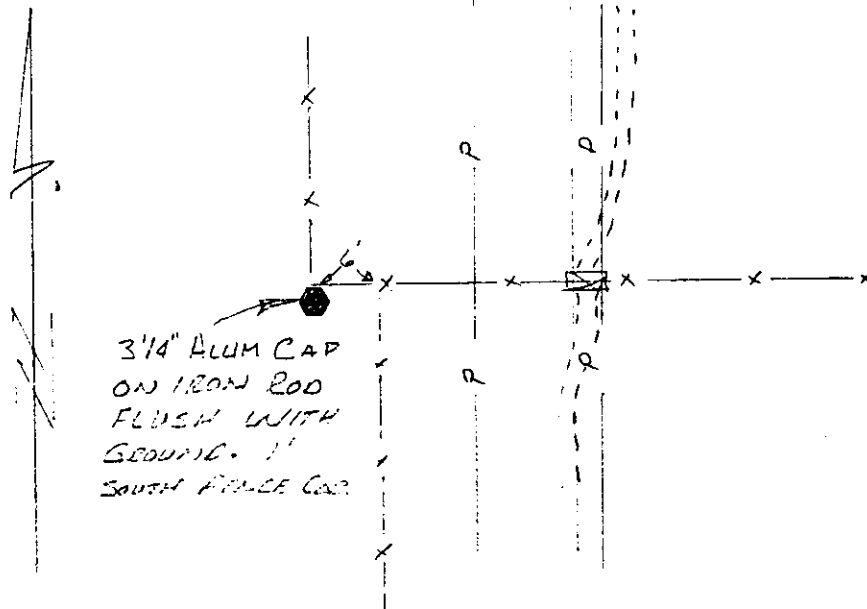
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17110100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.464977"	ONE SIGMA ERROR
Longitude:	121°21'48.779545"	
Northing:	409694.2256	0.014
Easting:	3278932.0737	0.013
Convergence:	-0°03'21.0514"	
Scale Factor:	1.000160506851	
Ellipsoid Height:	3382.1885	0.019
Orthometric Height:	3447.1198	0.021
Geoid Height:	-64.9313	

CONTROL MARK DATA

NAME OF MARK: 17110140 COUNTY: DESCHUTES
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 6/08/88 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 747

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

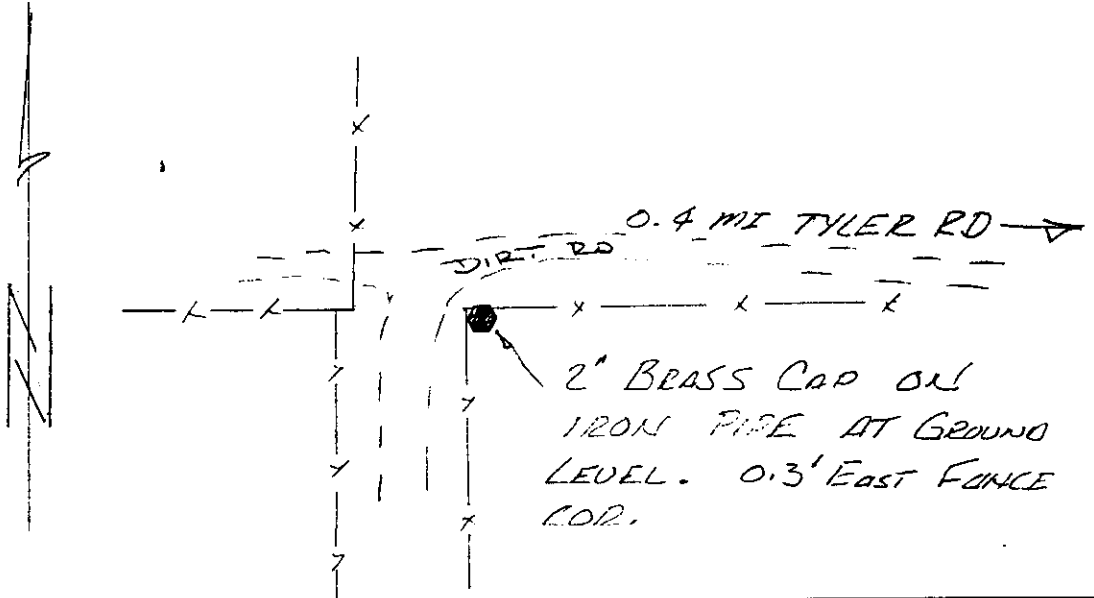
MARK: 17110140 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°07'51.574456"	
Longitude:	121°21'48.849727"	
Northing:	412338.5985	0.014
Easting:	3278929.532	0.013
Convergence:	-0°03'21.1265"	
Scale Factor:	1.000160506973	
Ellipsoid Height:	3290.8193	0.019
Orthometric Height:	3355.8438	0.022
Geoid Height:	-65.0245	

CONTROL MARK DATA

NAME OF MARK: 17110200 COUNTY: DESCHUTES
 MARK SET BY: U.S. GOVERNMENT ? STATE: OREGON
 DATE OF MARK: 1915+- COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

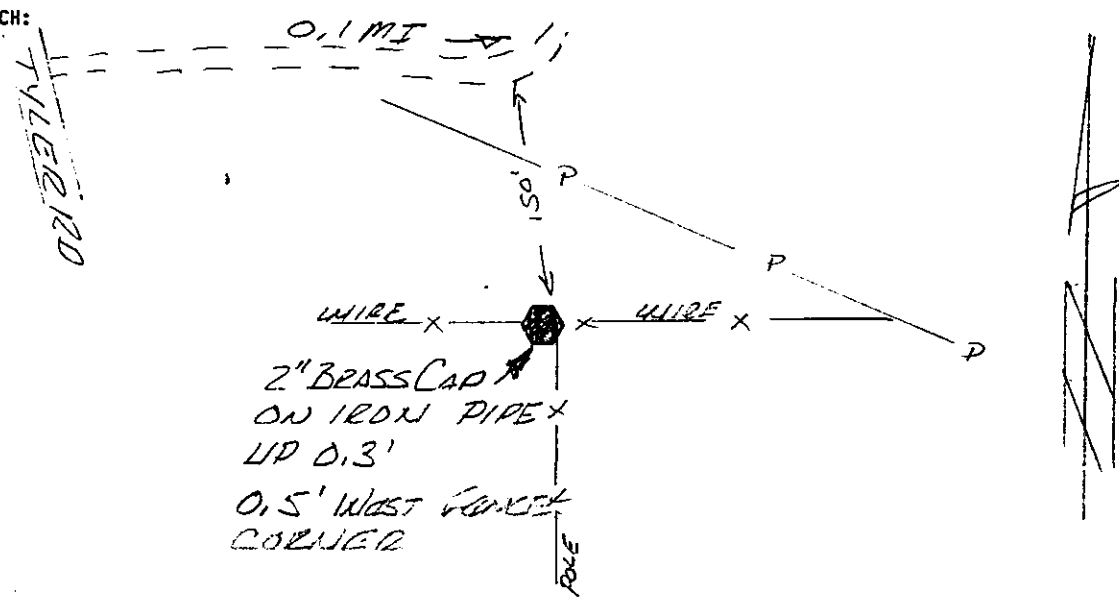
MARK: 17110200 HORIZONTAL ORDER: FIRST

		ONE
Latitude:	44°07'25.719194"	SIGMA
Longitude:	121°23'00.996306"	ERROR
Northing:	409725.7502	0.014
Easting:	3273663.5275	0.013
Convergence:	-0°04'11.3298"	
Scale Factor:	1.000160792049	
Ellipsoid Height:	3452.4169	0.019
Orthometric Height:	3517.3144	0.022
Geoid Height:	-64.8976	

CONTROL MARK DATA

NAME OF MARK: 17110204 COUNTY: DESCHUTES
 MARK SET BY: U.S. GOVERNMENT ? STATE: OREGON
 DATE OF MARK: 1915+- COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

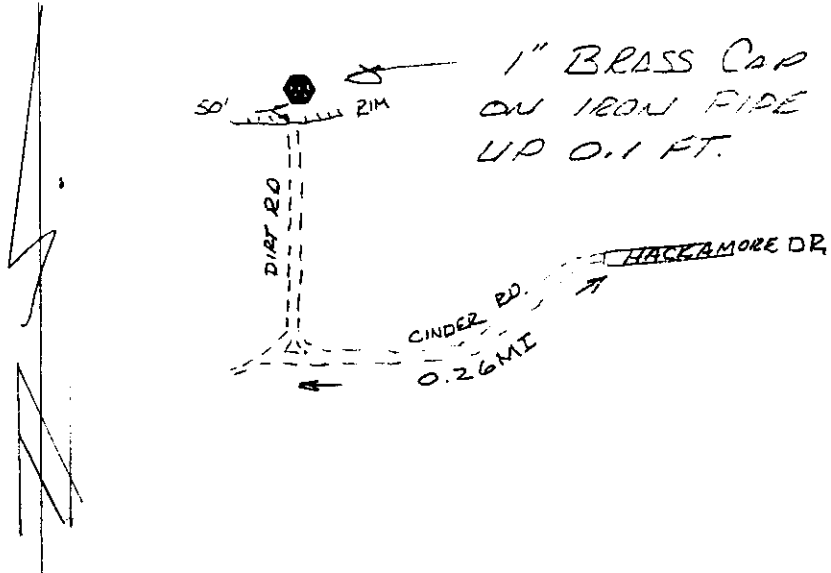
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17110204</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°07'25.562124"	ONE SIGMA ERROR
Longitude:	121°22'24.870437"	
Northing:	409706.7915	0.016
Easting:	3276299.0717	0.014
Convergence:	-0°03'46.1783"	
Scale Factor:	1.000160641457	
Ellipsoid Height:	3428.3962	0.022
Orthometric Height:	3493.3115	0.024
Geoid Height:	-64.9153	

CONTROL MARK DATA

NAME OF MARK: 17111100 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 12/15/61 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2147

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

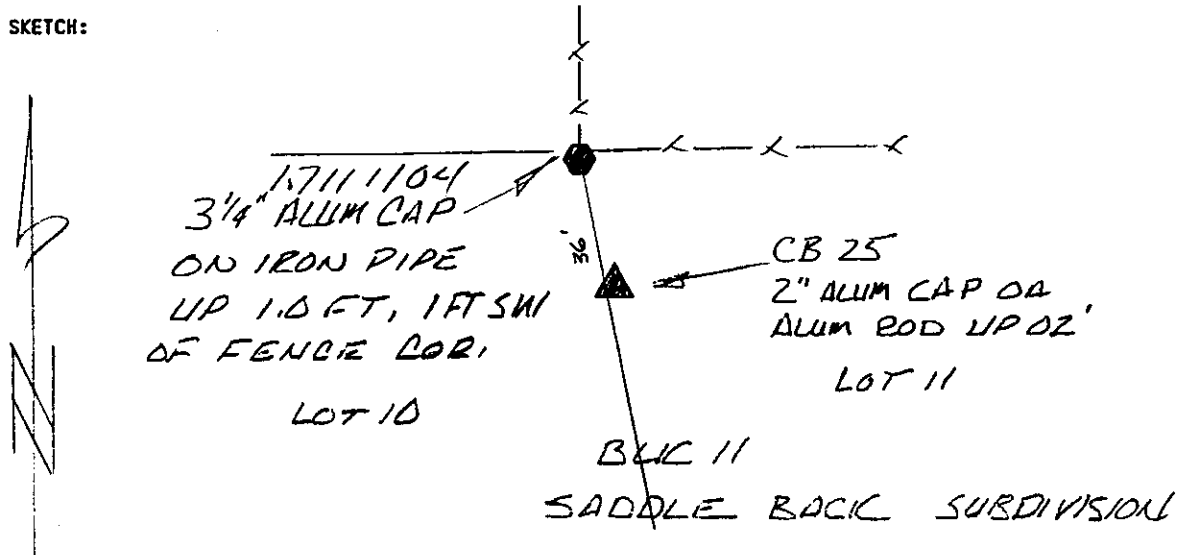
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17111100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.892691"	ONE SIGMA ERROR
Longitude:	121°23'01.182400"	
Northing:	404476.7887	0.013
Easting:	3273643.5528	0.012
Convergence:	-0°04'11.3942"	
Scale Factor:	1.000160793254	
Ellipsoid Height:	3555.5461	0.018
Orthometric Height:	3620.3073	0.021
Geoid Height:	-64.7612	

CONTROL MARK DATA

NAME OF MARK: 17111104 COUNTY: DESCHUTES
 MARK SET BY: LS 2111 WALTER MILLER STATE: OREGON
 DATE OF MARK: 6/20/88 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 759

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.00016000000

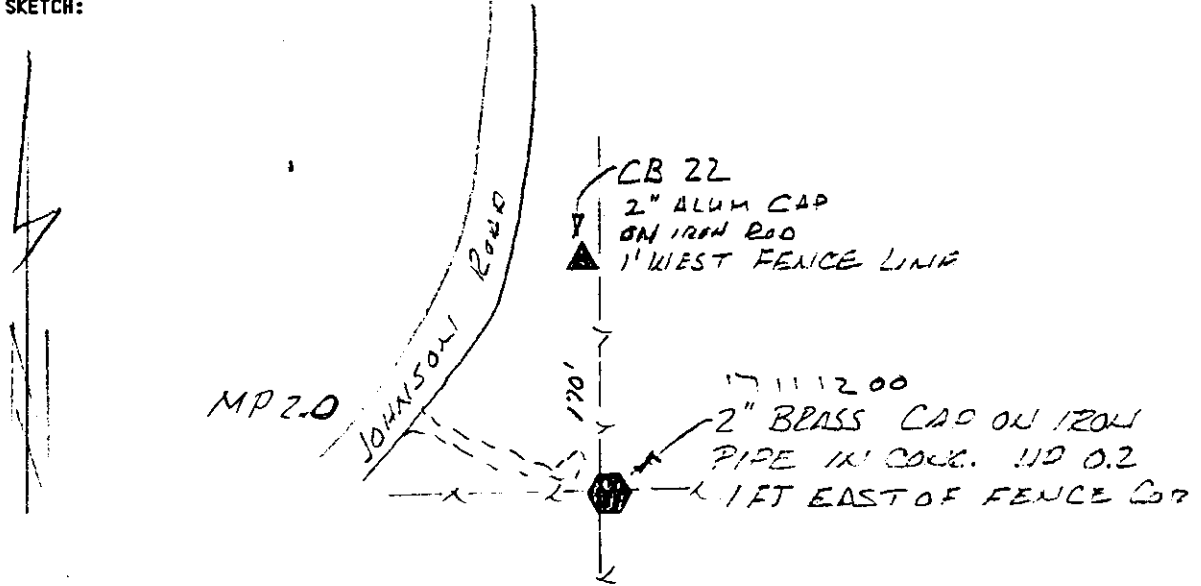
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17111104</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.827792"	ONE SIGMA ERROR
Longitude:	121°22'24.667767"	
Northing:	404467.1324	0.029
Easting:	3276308.1163	0.029
Convergence:	-0°03'45.9788"	
Scale Factor:	1.000160640970	
Ellipsoid Height:	3514.9768	0.034
Orthometric Height:	3579.7519	0.035
Geoid Height:	-64.7751	

CONTROL MARK DATA

NAME OF MARK: 17111200 COUNTY: DESCHUTES
 MARK SET BY: U.S. GOVERNMENT ? STATE: OREGON
 DATE OF MARK: 1915+- COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

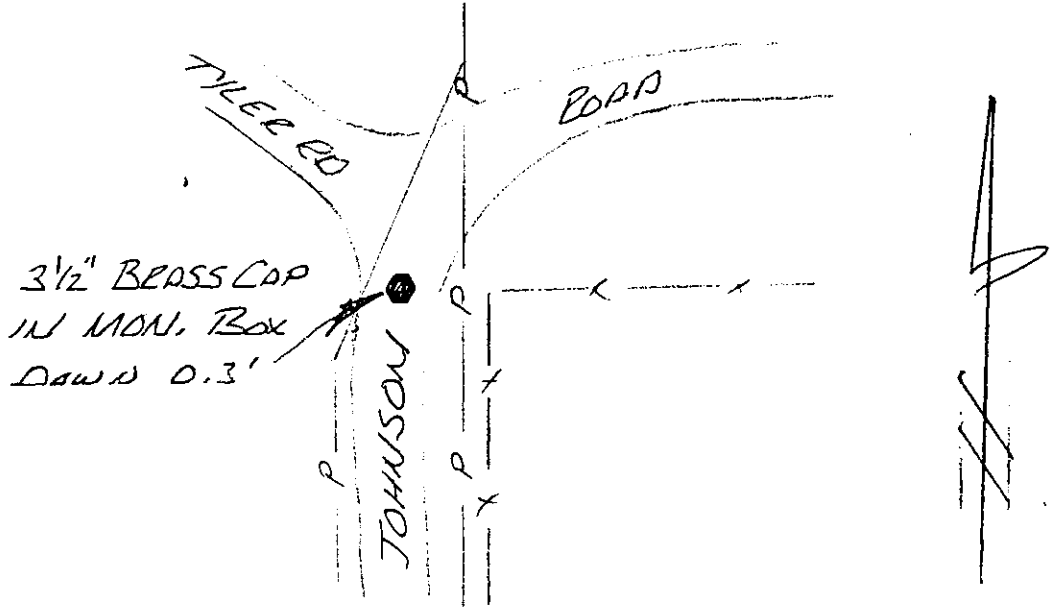
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17111200</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.540529"	ONE SIGMA ERROR
Longitude:	121°21'48.050127"	
Northing:	404435.2761	0.026
Easting:	3278980.1762	0.025
Convergence:	-0°03'20.4915"	
Scale Factor:	1.000160504541	
Ellipsoid Height:	3470.7523	0.028
Orthometric Height:	3535.5439	0.028
Geoid Height:	-64.7915	

CONTROL MARK DATA

NAME OF MARK: 17111240 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 8/19/92 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1144

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

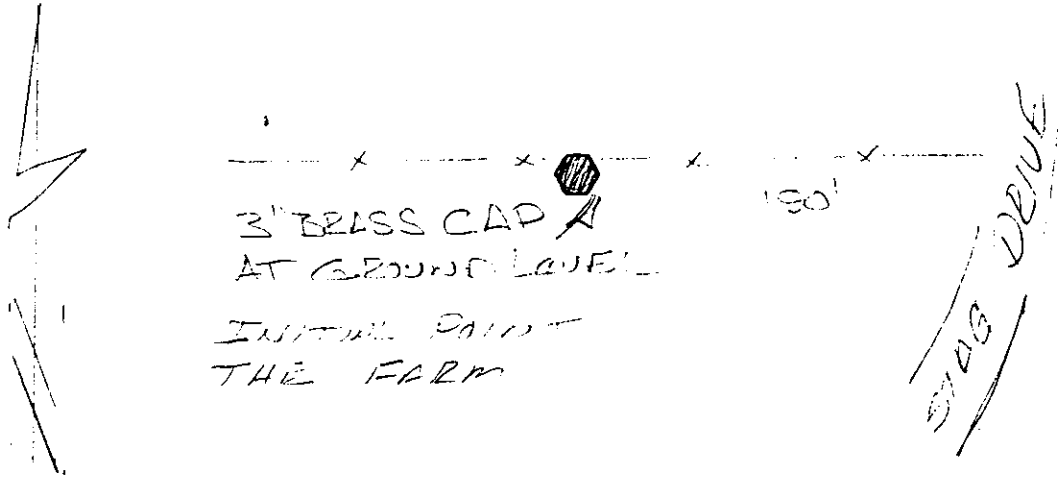
MARK: 17111240 HORIZONTAL ORDER: FIRST

Latitude:	44°06'59.500037"	ONE
Longitude:	121°21'48.411398"	SIGMA
		ERROR
Northing:	407064.4739	0.012
Easting:	3278956.3721	0.011
Convergence:	-0°03'20.7690"	
Scale Factor:	1.000160505684	
Ellipsoid Height:	3490.2897	0.016
Orthometric Height:	3555.1504	0.017
Geoid Height:	-64.8607	

CONTROL MARK DATA

NAME OF MARK: 17111300 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 11/79 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 07193

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

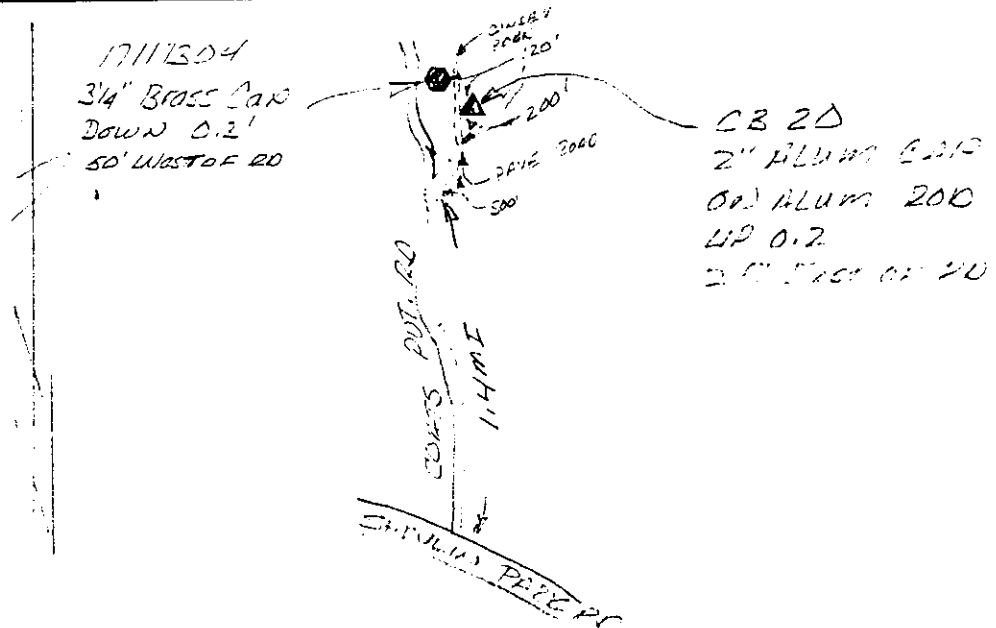
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17111300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'41.590753"	ONE SIGMA ERROR
Longitude:	121°21'48.207144"	
Northing:	399173.8376	0.014
Easting:	3278963.6019	0.013
Convergence:	-0°03'20.5486"	
Scale Factor:	1.000160505339	
Ellipsoid Height:	3542.6359	0.021
Orthometric Height:	3607.2917	0.024
Geoid Height:	-64.6558	

CONTROL MARK DATA

NAME OF MARK: 17111304 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/09/92 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1138

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

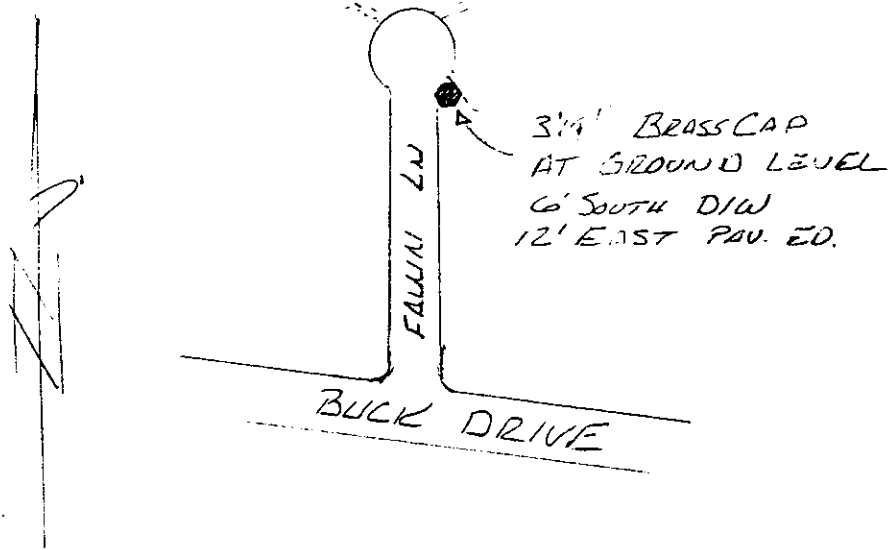
MARK: 17111304 HORIZONTAL ORDER: SECOND

		ONE
Latitude:	44°05'41.575622"	SIGMA
Longitude:	121°21'12.118473"	ERROR
Northing:	399169.9043	0.027
Easting:	3281597.7326	0.027
Convergence:	-0°02'55.4363"	
Scale Factor:	1.000160386708	
Ellipsoid Height:	3573.9511	0.031
Orthometric Height:	3638.6208	0.033
Geoid Height:	-64.6697	

CONTROL MARK DATA

NAME OF MARK: 17111340 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 4/08/92 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1136

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

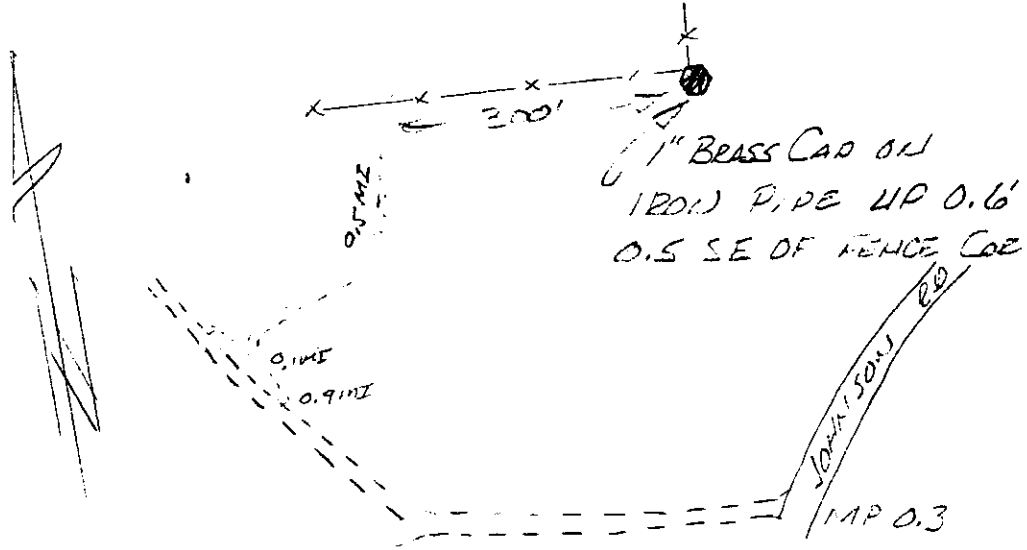
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17111340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'07.632694"	ONE SIGMA ERROR
Longitude:	121°21'48.249620"	
Northing:	401811.3549	0.014
Easting:	3278963.0665	0.013
Convergence:	-0°03'20.6043"	
Scale Factor:	1.000160505364	
Ellipsoid Height:	3496.0137	0.020
Orthometric Height:	3560.7373	0.022
Geoid Height:	-64.7236	

CONTROL MARK DATA

NAME OF MARK: 17111400 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 12/1961 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1153

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

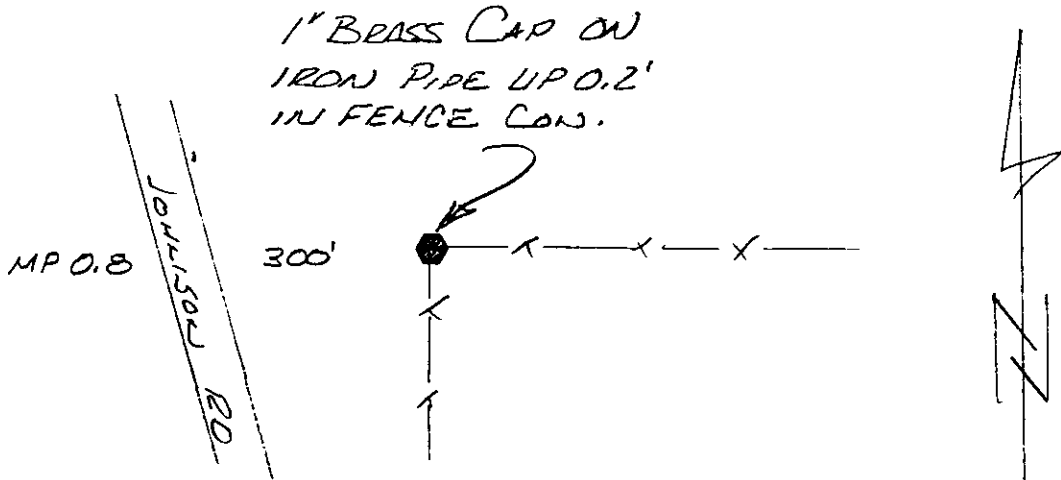
MARK: 17111400 HORIZONTAL ORDER: FIRST

Latitude:	44°05'41.730885"	ONE
Longitude:	121°23'01.097287"	SIGMA
Northing:	399193.8571	ERROR
Easting:	3273643.3273	0.016
Convergence:	-0°04'11.2694"	0.016
Scale Factor:	1.000160793270	
Ellipsoid Height:	3571.1213	0.023
Orthometric Height:	3635.7472	0.026
Geoid Height:	-64.6259	

CONTROL MARK DATA

NAME OF MARK: 17111404 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 12/15/61 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2147

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

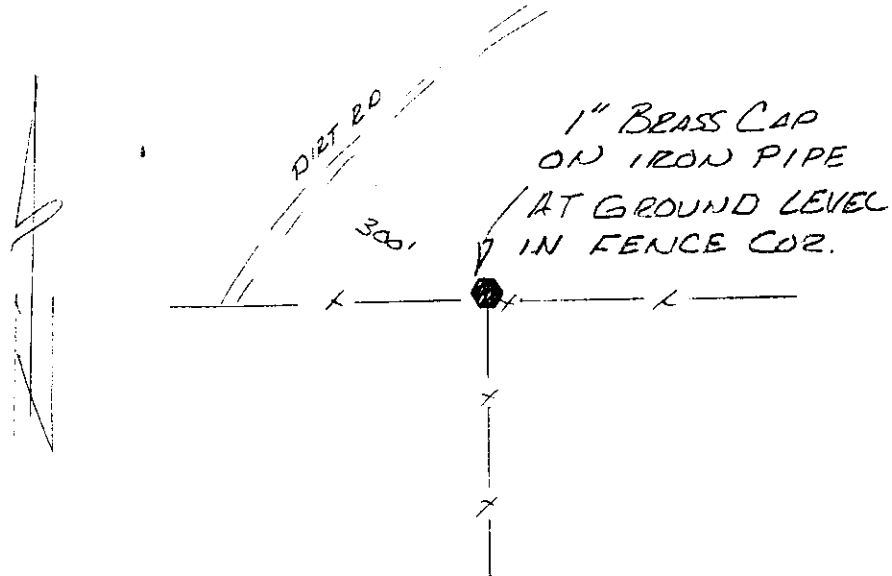
MARK: 17111404 HORIZONTAL ORDER: FIRST

Latitude:	44°05'41.657515"	ONE SIGMA ERROR
Longitude:	121°22'24.740340"	
Northing:	399183.3563	0.014
Easting:	3276297.0311	0.013
Convergence:	-0°03'45.9703"	
Scale Factor:	1.000160641572	
Ellipsoid Height:	3638.3974	0.020
Orthometric Height:	3703.0344	0.023
Geoid Height:	-64.637	

CONTROL MARK DATA

NAME OF MARK: 17111440 COUNTY: DESCHUTES
MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
DATE OF MARK: 12/15/61 COUNTRY: U.S.A.
LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 2147

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

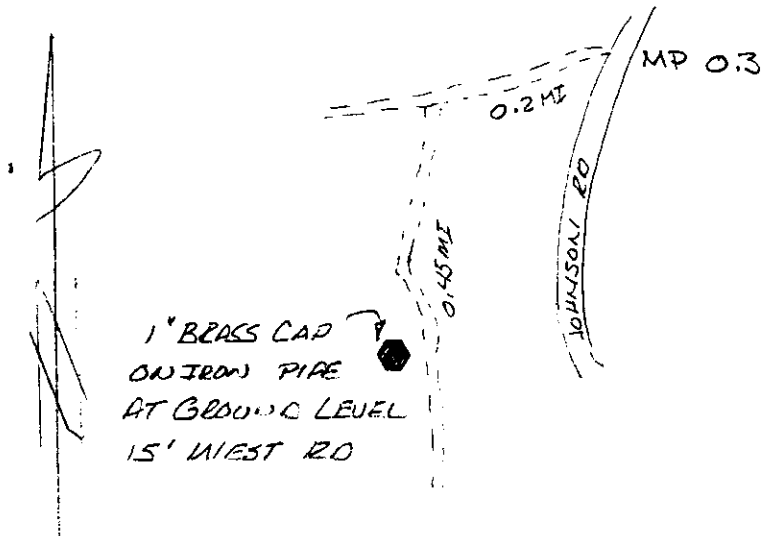
MARK: 17111440 HORIZONTAL ORDER: FIRST

Latitude:	44°06'07.819542"	ONE SIGMA ERROR
Longitude:	121°23'01.102448"	
Northing:	401836.1033	0.017
Easting:	3273646.1696	0.016
Convergence:	-0°04'11.3058"	
Scale Factor:	1.000160793098	
Ellipsoid Height:	3591.5261	0.023
Orthometric Height:	3656.2195	0.026
Geoid Height:	-64.6934	

CONTROL MARK DATA

NAME OF MARK: 17112300 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 12/1961 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1156

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

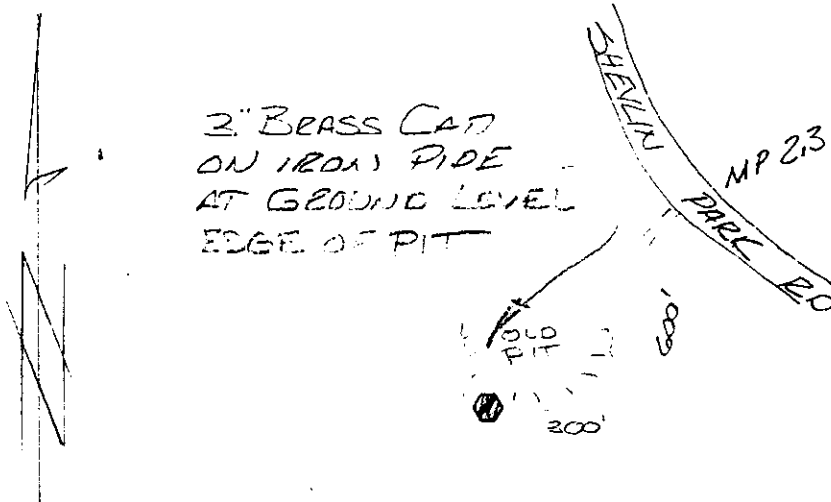
MARK: 17112300 HORIZONTAL ORDER: FIRST

Latitude:	44°04'49.641790"	ONE SIGMA ERROR
Longitude:	121°23'01.282863"	
Northing:	393918.3271	0.016
Easting:	3273623.353	0.015
Convergence:	-0°04'11.3330"	
Scale Factor:	1.000160794476	
Ellipsoid Height:	3678.0335	0.022
Orthometric Height:	3742.5243	0.026
Geoid Height:	-64.4908	

CONTROL MARK DATA

NAME OF MARK: 17112304 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 9/30/74 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2173

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

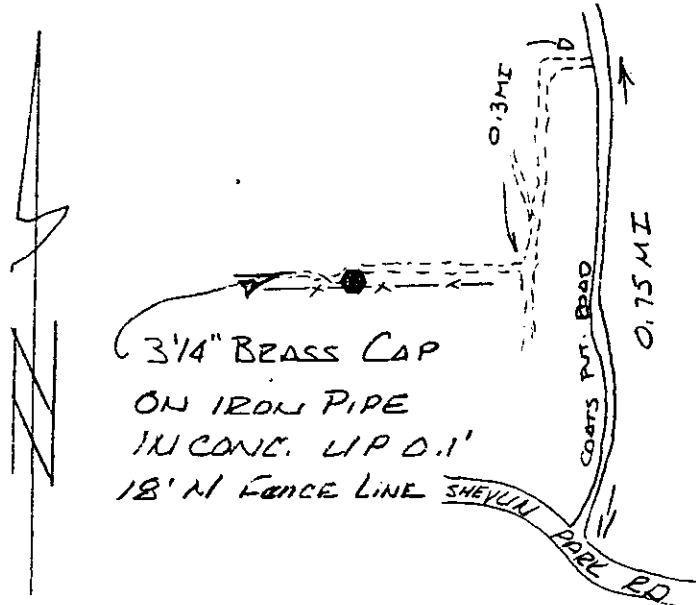
MARK: 17112304 HORIZONTAL ORDER: FIRST

Latitude:	44°04'49.607920"	ONE
Longitude:	121°22'24.790205"	SIGMA
Northing:	393911.8143	ERROR
Easting:	3276287.6162	0.015
Convergence:	-0°03'45.9461"	0.015
Scale Factor:	1.000160642084	
Ellipsoid Height:	3655.5715	0.022
Orthometric Height:	3720.072	0.025
Geoid Height:	-64.5005	

CONTROL MARK DATA

NAME OF MARK: 17112400 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 6/30/92 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1140

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

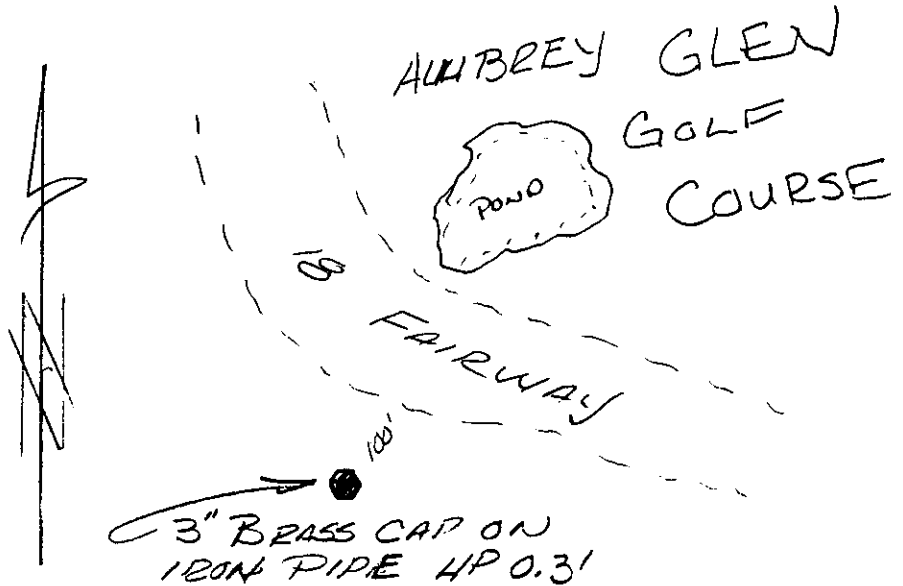
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'49.570499"	ONE
Longitude:	121°21'48.296691"	SIGMA
Northing:	393905.2697	ERROR
Easting:	3278951.9423	0.013
Convergence:	-0°03'20.5587"	0.012
Scale Factor:	1.000160505901	
Ellipsoid Height:	3718.5675	0.019
Orthometric Height:	3783.0884	0.023
Geoid Height:	-64.5209	

CONTROL MARK DATA

NAME OF MARK: 17112404 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 09/07/97 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1139

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

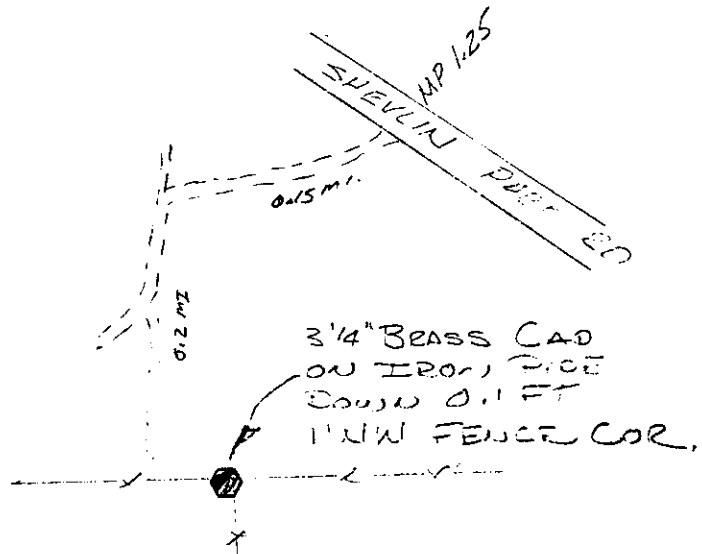
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112404</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°04'49.560835"	ONE SIGMA ERROR
Longitude:	121°21'12.187535"	
Northing:	393901.8882	0.027
Easting:	3281588.2104	0.026
Convergence:	-0°02'55.4387"	
Scale Factor:	1.000160387109	
Ellipsoid Height:	3611.6119	0.030
Orthometric Height:	3676.1487	0.033
Geoid Height:	-64.5368	

CONTROL MARK DATA

NAME OF MARK: 17112500 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 8/20/92 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1146

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

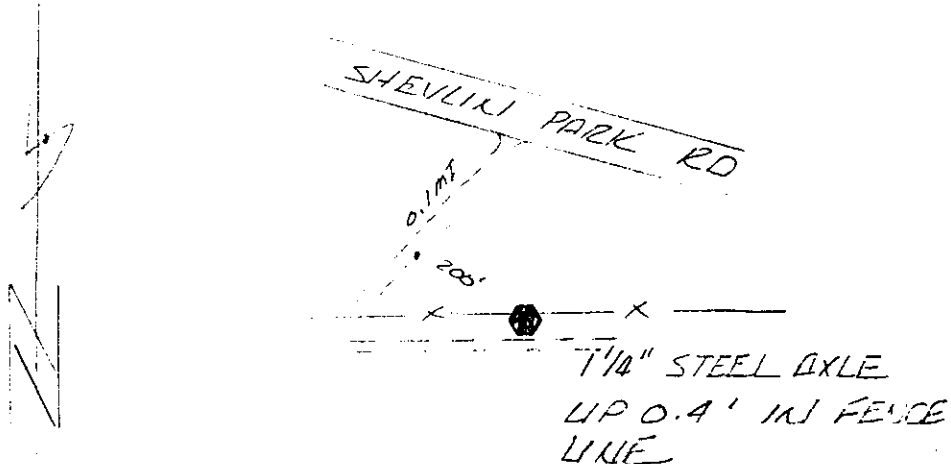
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.543782"	ONE SIGMA ERROR
Longitude:	121°21'48.541233"	
Northing:	388636.0717	0.016
Easting:	3278928.9616	0.016
Convergence:	-0°03'20.6766"	
Scale Factor:	1.000160507008	
Ellipsoid Height:	3699.0577	0.024
Orthometric Height:	3763.4365	0.028
Geoid Height:	-64.3788	

CONTROL MARK DATA

NAME OF MARK: 17112504 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 02180

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

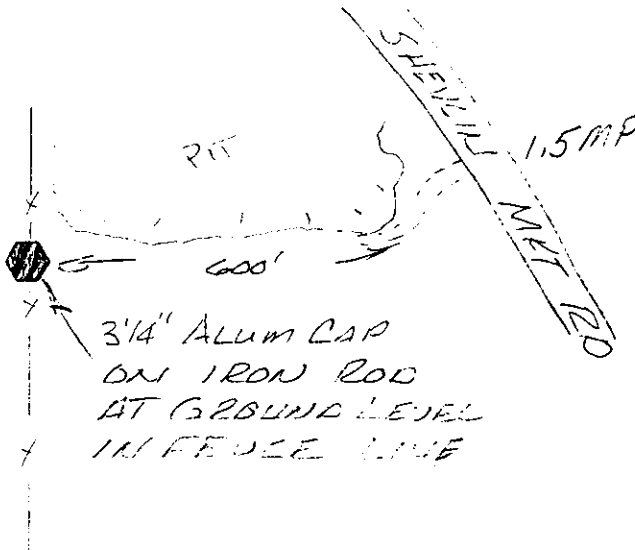
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112504</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.604060"	ONE SIGMA ERROR
Longitude:	121°21'12.384046"	
Northing:	388639.7687	0.017
Easting:	3281569.3849	0.016
Convergence:	-0°02'55.5298"	
Scale Factor:	1.000160387902	
Ellipsoid Height:	3683.5004	0.027
Orthometric Height:	3747.8983	0.030
Geoid Height:	-64.3979	

CONTROL MARK DATA

NAME OF MARK: 17112540 COUNTY: DESCHUTES
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 966

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

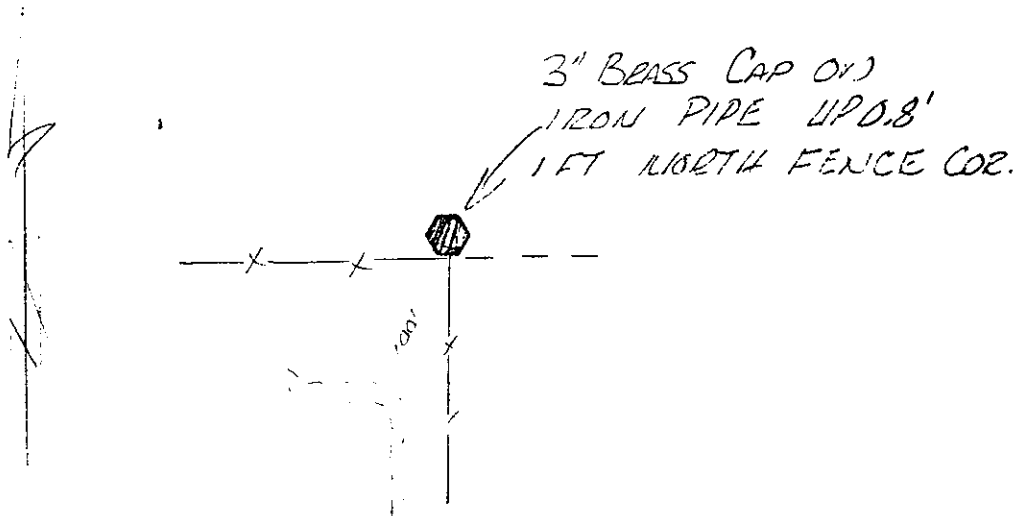
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17112540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'23.445304"	ONE SIGMA ERROR
Longitude:	121°21'48.332706"	
Northing:	391259.3363	0.015
Easting:	3278946.74	0.015
Convergence:	-0°03'20.5575"	
Scale Factor:	1.000160506152	
Ellipsoid Height:	3671.8854	0.022
Orthometric Height:	3736.3307	0.026
Geoid Height:	-64.4454	

CONTROL MARK DATA

NAME OF MARK: 17112600 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 9/30/74 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2173

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

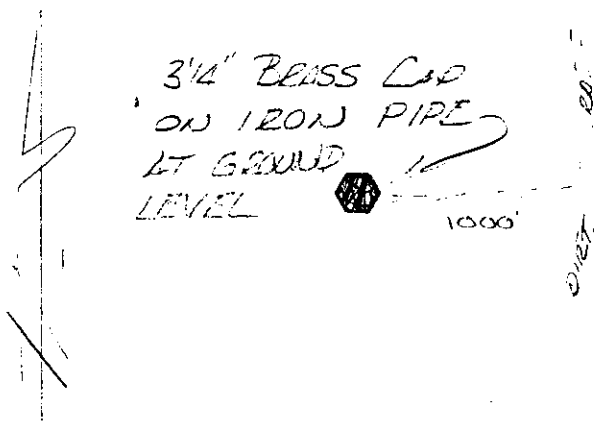
MARK: 17112600 HORIZONTAL ORDER: FIRST

Latitude:	44°03'57.609374"	ONE SIGMA ERROR
Longitude:	121°23'01.299332"	
Northing:	388648.5358	0.012
Easting:	3273615.7299	0.011
Convergence:	-0°04'11.2790"	
Scale Factor:	1.000160794938	
Ellipsoid Height:	3799.233	0.018
Orthometric Height:	3863.5793	0.023
Geoid Height:	-64.3463	

CONTROL MARK DATA

NAME OF MARK: 17112604 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 8/19/92 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1149

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

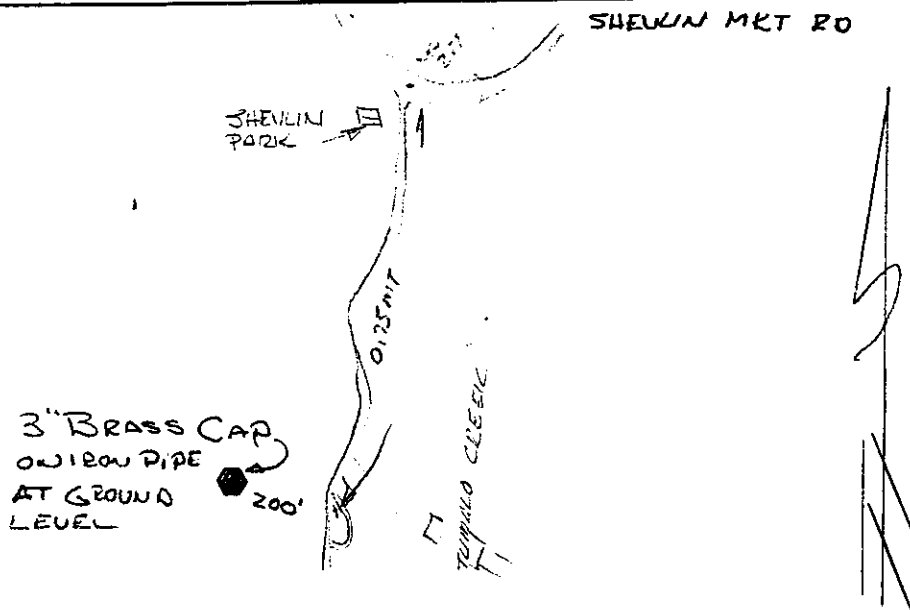
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.555815"	ONE SIGMA ERROR
Longitude:	121°22'24.772793"	
Northing:	388640.0262	0.016
Easting:	3276283.1136	0.014
Convergence:	-0°03'45.8751"	
Scale Factor:	1.000160642330	
Ellipsoid Height:	3832.8929	0.022
Orthometric Height:	3897.249	0.026
Geoid Height:	-64.356	

CONTROL MARK DATA

NAME OF MARK: 17112640 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 9/30/74 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2173

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

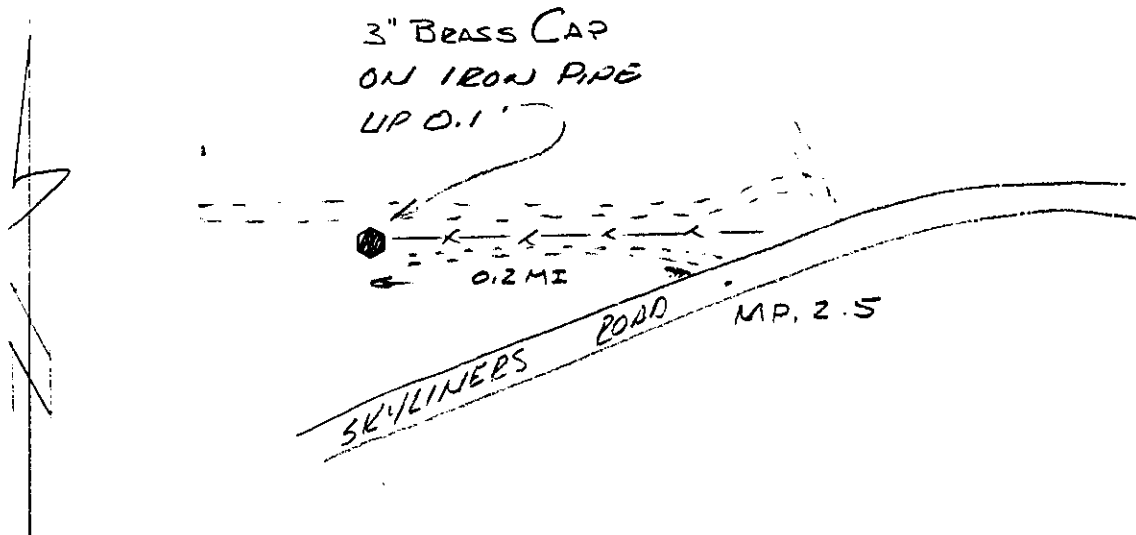
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17112640</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'23.774277"	ONE SIGMA ERROR
Longitude:	121°23'01.327652"	
Northing:	391298.4928	0.019
Easting:	3273616.8905	0.019
Convergence:	-0°04'11.3316"	
Scale Factor:	1.000160794867	
Ellipsoid Height:	3646.1219	0.027
Orthometric Height:	3710.5353	0.030
Geoid Height:	-64.4134	

CONTROL MARK DATA

NAME OF MARK: 17113500 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 2/21/90 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1034

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

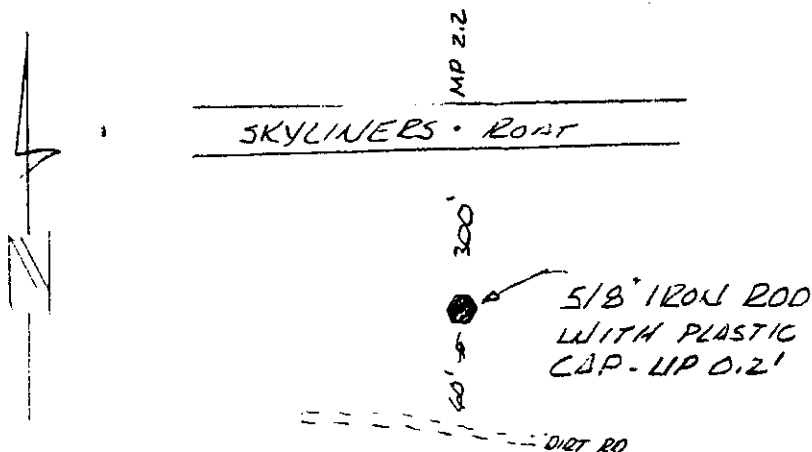
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17113500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.891707"	ONE SIGMA ERROR
Longitude:	121°23'00.499609"	
Northing:	383410.5628	0.036
Easting:	3273667.7645	0.023
Convergence:	-0°04'10.6578"	
Scale Factor:	1.000160791808	
Ellipsoid Height:	3801.5468	0.040
Orthometric Height:	3865.7648	0.042
Geoid Height:	-64.2181	

CONTROL MARK DATA

NAME OF MARK: 17113504 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 12/04/90 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 2178

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

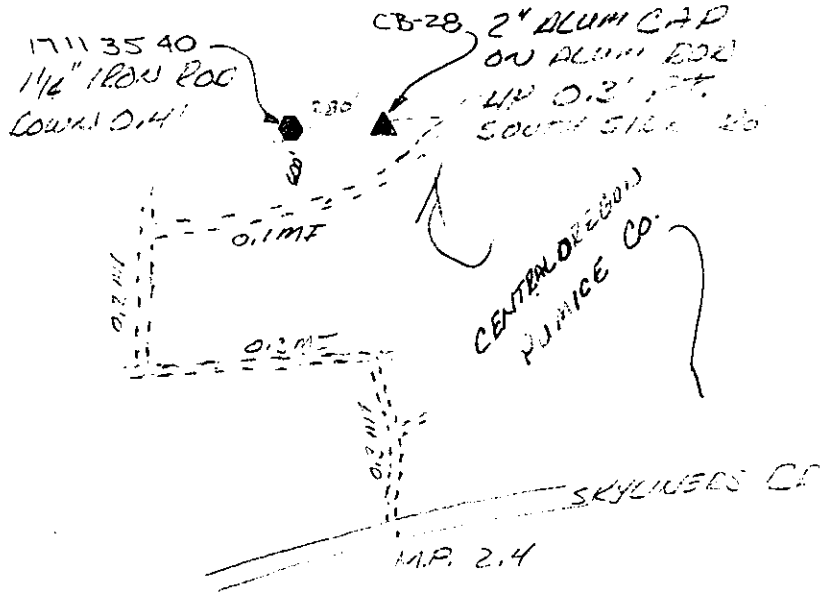
MARK: 17113504 HORIZONTAL ORDER: FIRST

Latitude:	44°03'05.533787"	ONE SIGMA ERROR
Longitude:	121°22'25.178717"	
Northing:	383371.3316	0.020
Easting:	3276247.6945	0.017
Convergence:	-0°03'46.0985"	
Scale Factor:	1.000160644252	
Ellipsoid Height:	3785.9334	0.028
Orthometric Height:	3850.1586	0.031
Geoid Height:	-64.2252	

CONTROL MARK DATA

NAME OF MARK: 17113540 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 02177

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

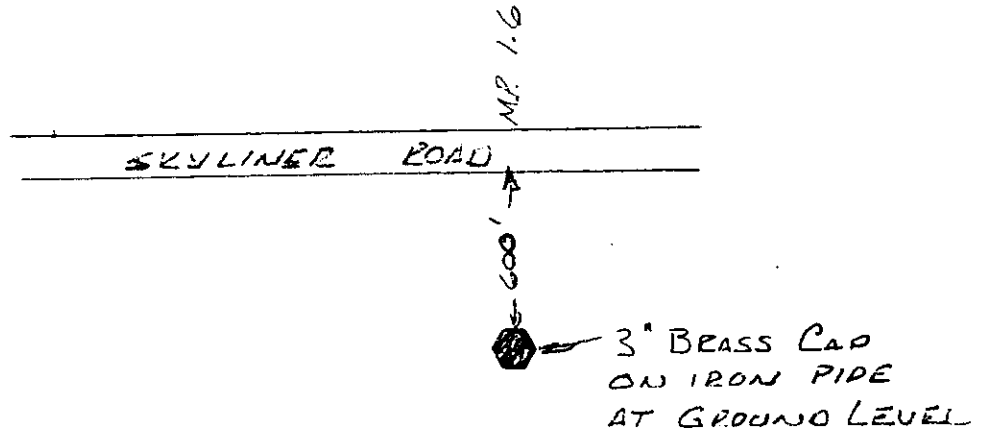
MARK: 17113540 HORIZONTAL ORDER: SECOND

Latitude:	44°03'31.530872"	ONE
Longitude:	121°23'01.407178"	SIGMA
Northing:	386007.3451	ERROR
Easting:	3273604.636	0.029
Convergence:	-0°04'11.3211"	0.028
Scale Factor:	1.000160795608	
Ellipsoid Height:	3870.6986	0.034
Orthometric Height:	3934.9792	0.037
Geoid Height:	-64.2806	

CONTROL MARK DATA

NAME OF MARK: 17113600 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 2/21/90 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1033

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

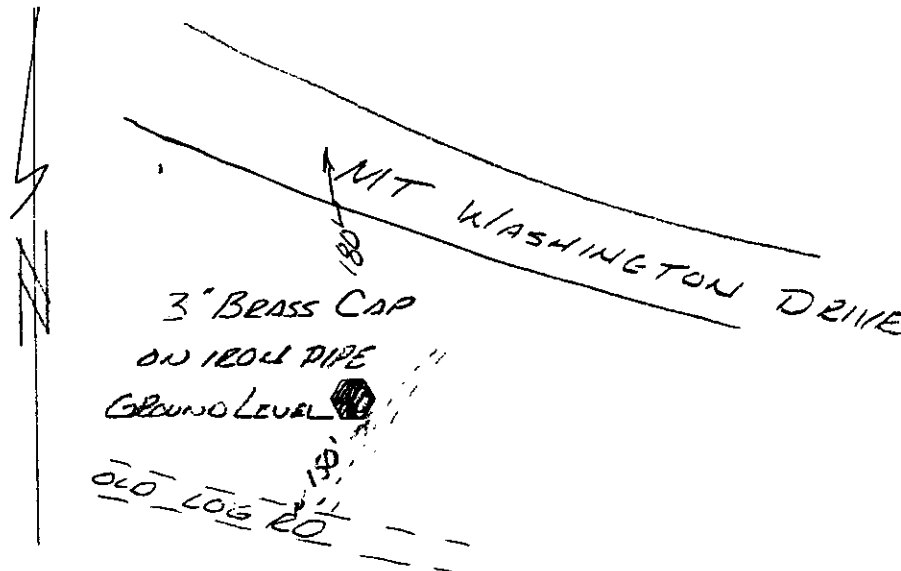
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17113600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.643087"	ONE SIGMA ERROR
Longitude:	121°21'48.764521"	
Northing:	383379.6489	0.017
Easting:	3278907.5384	0.015
Convergence:	-0°03'20.7796"	
Scale Factor:	1.000160508041	
Ellipsoid Height:	3728.8591	0.025
Orthometric Height:	3793.1077	0.028
Geoid Height:	-64.2485	

CONTROL MARK DATA

NAME OF MARK: 17113604 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 3/06/90 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1035

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

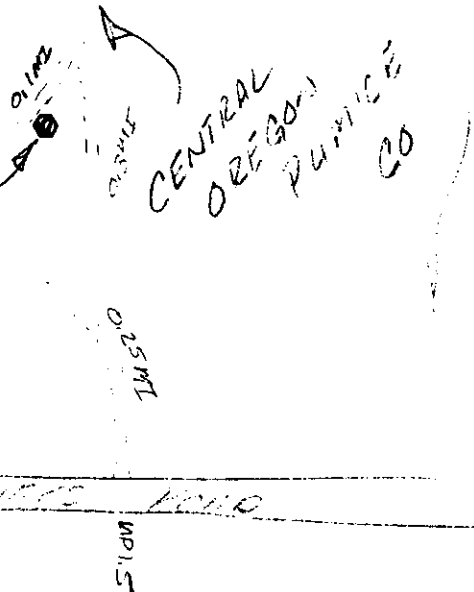
MARK: <u>17113604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.544836"	ONE
Longitude:	121°21'12.581047"	SIGMA
Northing:	383367.2867	ERROR
Easting:	3281550.5089	0.021
Convergence:	-0°02'55.6210"	0.018
Scale Factor:	1.000160388699	
Ellipsoid Height:	3683.6381	0.033
Orthometric Height:	3747.9059	0.035
Geoid Height:	-64.2678	

CONTROL MARK DATA

NAME OF MARK: 17113640 COUNTY: DESCHUTES
MARK SET BY: LS 1228 JOHN JOYCE STATE: OREGON
DATE OF MARK: 7/80 COUNTRY: U.S.A.
LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 02177

MARK SKETCH:

2 1/2" IRON PIPE
AT GROUND LEVEL
36' EAST RD



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

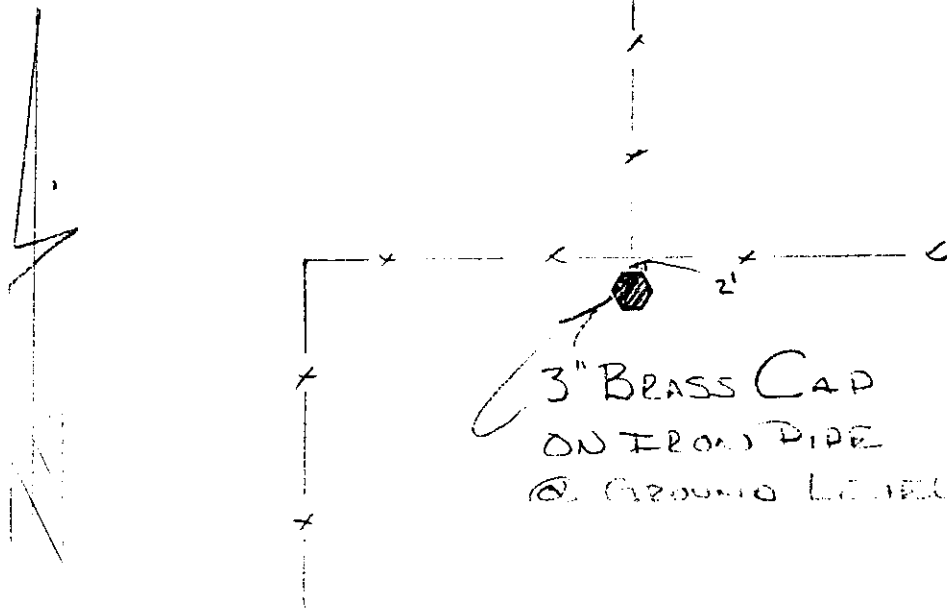
MARK: 17113640 HORIZONTAL ORDER: FIRST

Latitude:	44°03'31.592978"	ONE
Longitude:	121°21'48.652764"	SIGMA
Northing:	386007.8124	ERROR
Easting:	3278918.259	0.017
Convergence:	-0°03'20.7280"	0.016
Scale Factor:	1.000160507524	
Ellipsoid Height:	3684.3446	0.026
Orthometric Height:	3748.6579	0.029
Geoid Height:	-64.3132	

CONTROL MARK DATA

NAME OF MARK: 17120100 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP: 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1189

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

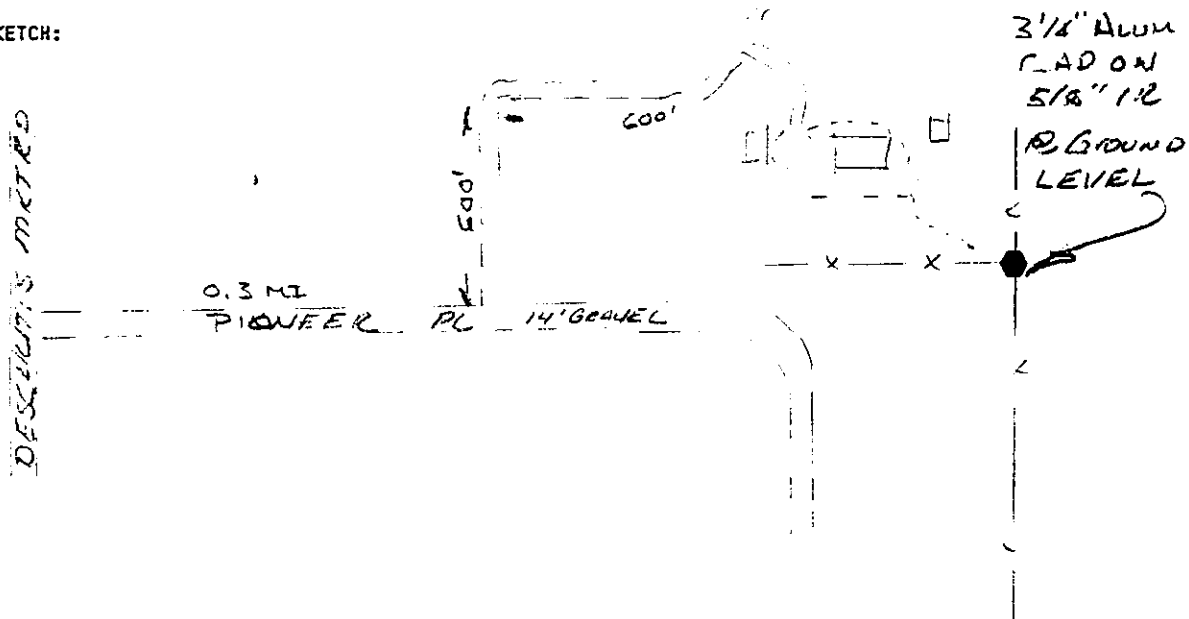
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.645051"	ONE SIGMA ERROR
Longitude:	121°14'36.350129"	
Northing:	409704.7365	0.019
Easting:	3310479.9746	0.017
Convergence:	+0°01'40.0106"	
Scale Factor:	1.000160125417	
Ellipsoid Height:	3308.2506	0.041
Orthometric Height:	3373.0029	0.049
Geoid Height:	-64.7523	

CONTROL MARK DATA

NAME OF MARK: 17120140 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 122

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

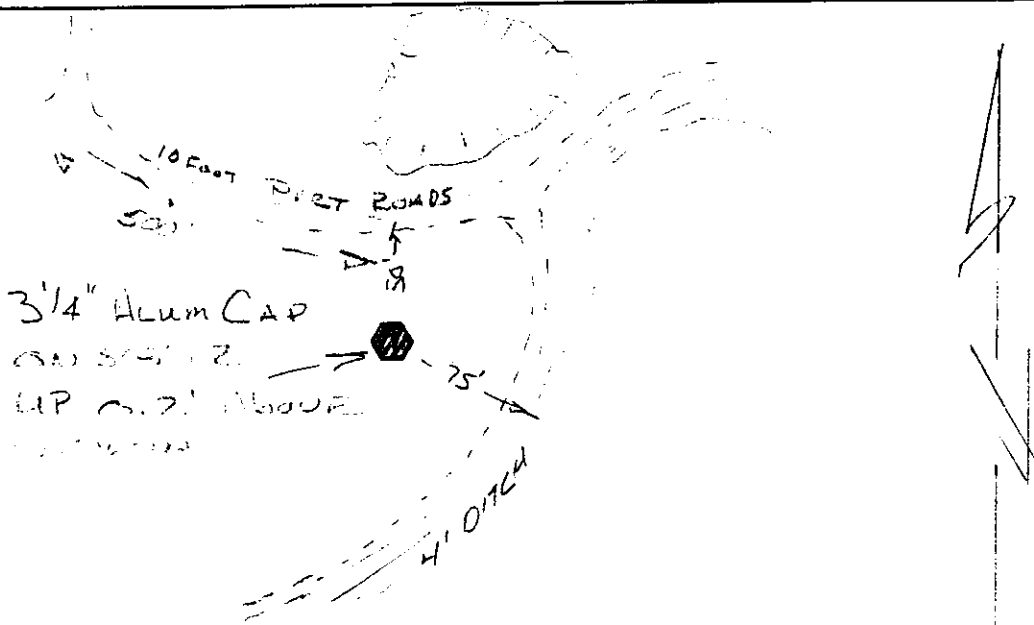
MARK: 17120140 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°07'51.703429"	
Longitude:	121°14'36.351442"	
Northing:	412343.9288	0.016
Easting:	3310478.5991	0.014
Convergence:	+0°01'40.0227"	
Scale Factor:	1.000160125384	
Ellipsoid Height:	3268.0065	0.032
Orthometric Height:	3332.8153	0.041
Geoid Height:	-64.8089	

CONTROL MARK DATA

NAME OF MARK: 17120200 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 130

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

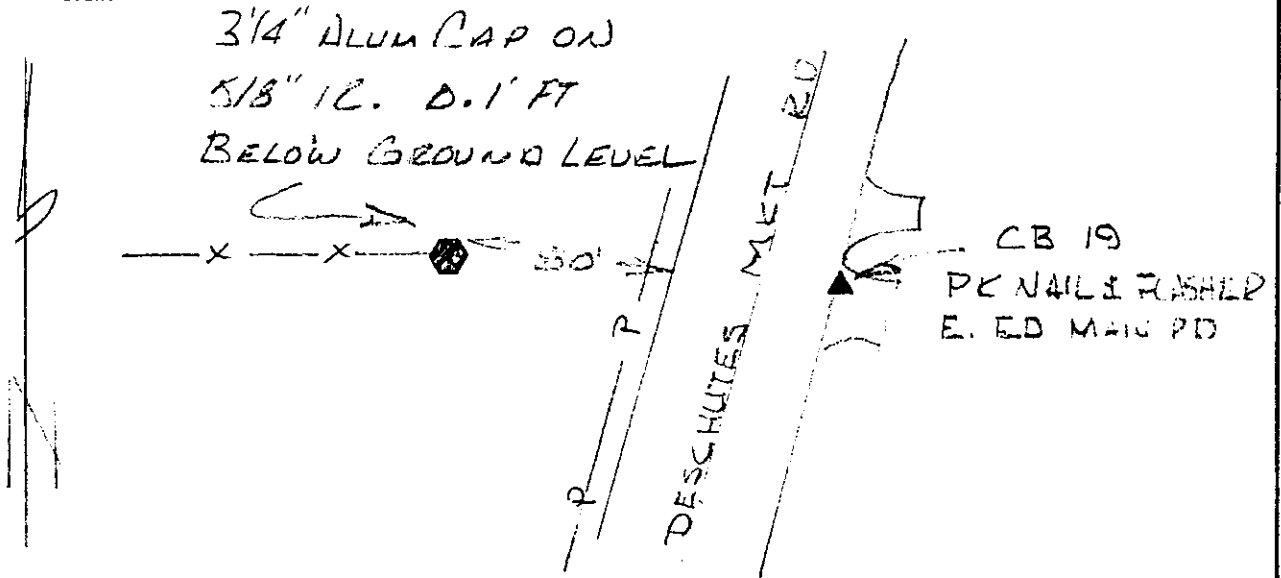
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.559331"	ONE SIGMA ERROR
Longitude:	121°15'49.677116"	
Northing:	409694.1229	0.013
Easting:	3305130.4072	0.012
Convergence:	+0°00'48.9595"	
Scale Factor:	1.000160030057	
Ellipsoid Height:	3297.1783	0.023
Orthometric Height:	3361.9908	0.034
Geoid Height:	-64.8125	

CONTROL MARK DATA

NAME OF MARK: 17120204 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 131

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

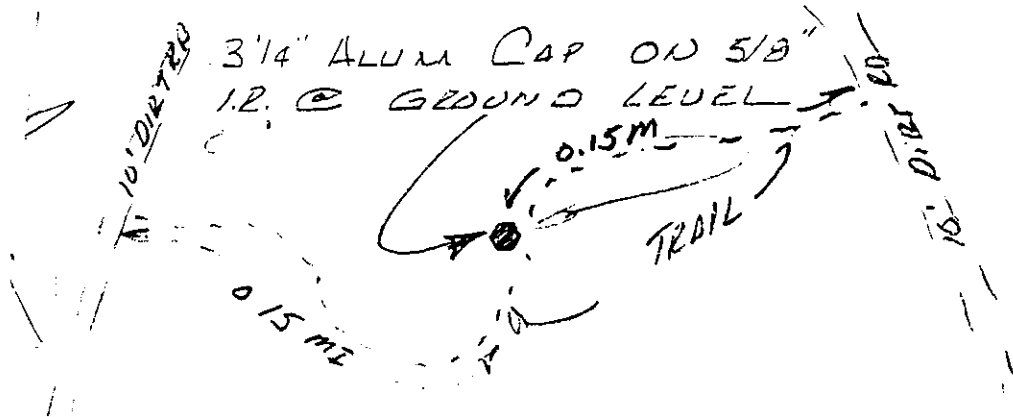
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120204</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°07'25.620407"	ONE SIGMA ERROR
Longitude:	121°15'13.396292"	
Northing:	409701.0991	0.017
Easting:	3307777.2731	0.044
Convergence:	+0°01'14.2187"	
Scale Factor:	1.000160069070	
Ellipsoid Height:	3293.1636	0.036
Orthometric Height:	3357.9442	0.036
Geoid Height:	-64.7807	

CONTROL MARK DATA

NAME OF MARK: 17120240 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 121

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

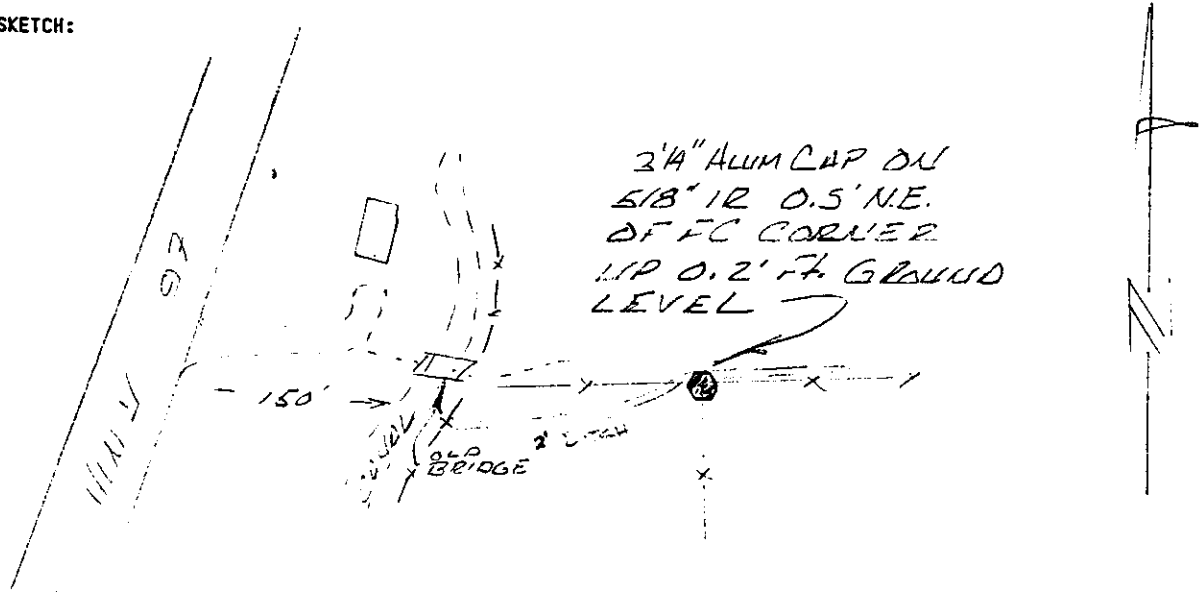
MARK: 17120240 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°07'51.628024"	
Longitude:	121°15'49.482869"	
Northing:	412334.3633	0.012
Easting:	3305143.9501	0.010
Convergence:	+0°00'49.1012"	
Scale Factor:	1.000160030215	
Ellipsoid Height:	3255.7143	0.021
Orthometric Height:	3320.5865	0.034
Geoid Height:	-64.8723	

CONTROL MARK DATA

NAME OF MARK: 17120300 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 128

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

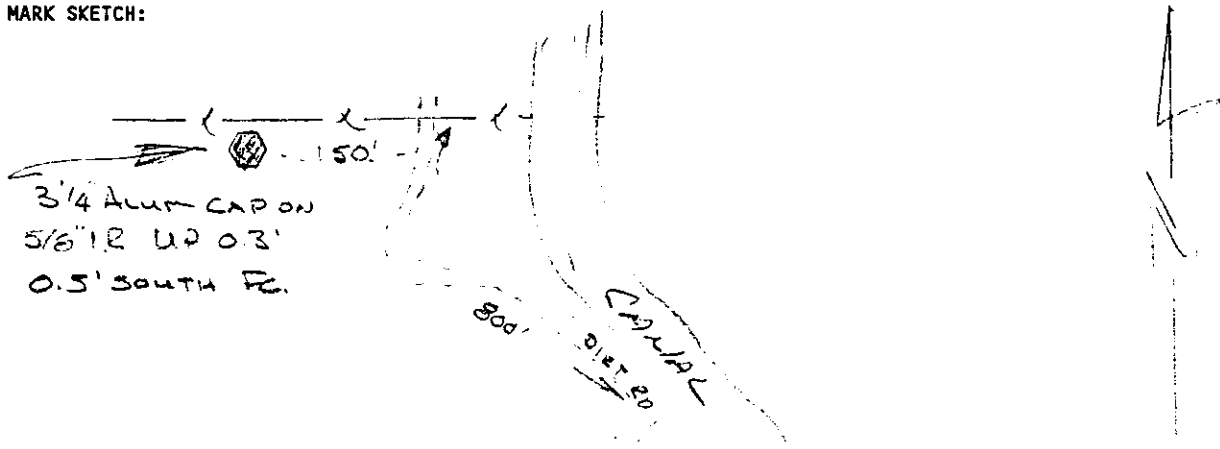
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.326270"	ONE SIGMA ERROR
Longitude:	121°17'01.463160"	
Northing:	409669.91	0.010
Easting:	3299893.255	0.009
Convergence:	-0°00'01.0187"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3311.4293	0.019
Orthometric Height:	3376.2953	0.032
Geoid Height:	-64.866	

CONTROL MARK DATA

NAME OF MARK: 17120304 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 129

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

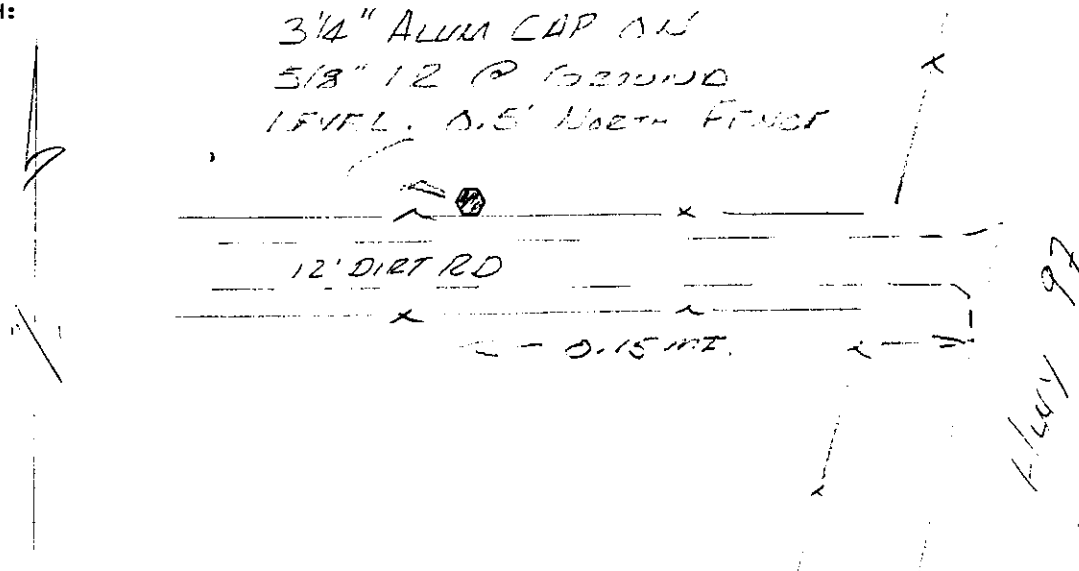
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120304</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.492537"	ONE SIGMA ERROR
Longitude:	121°16'25.542991"	
Northing:	409686.8953	0.012
Easting:	3302513.8125	0.010
Convergence:	+0°00'23.9893"	
Scale Factor:	1.000160007216	
Ellipsoid Height:	3323.391	0.021
Orthometric Height:	3388.2286	0.033
Geoid Height:	-64.8376	

CONTROL MARK DATA

NAME OF MARK: 17120340 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 120

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

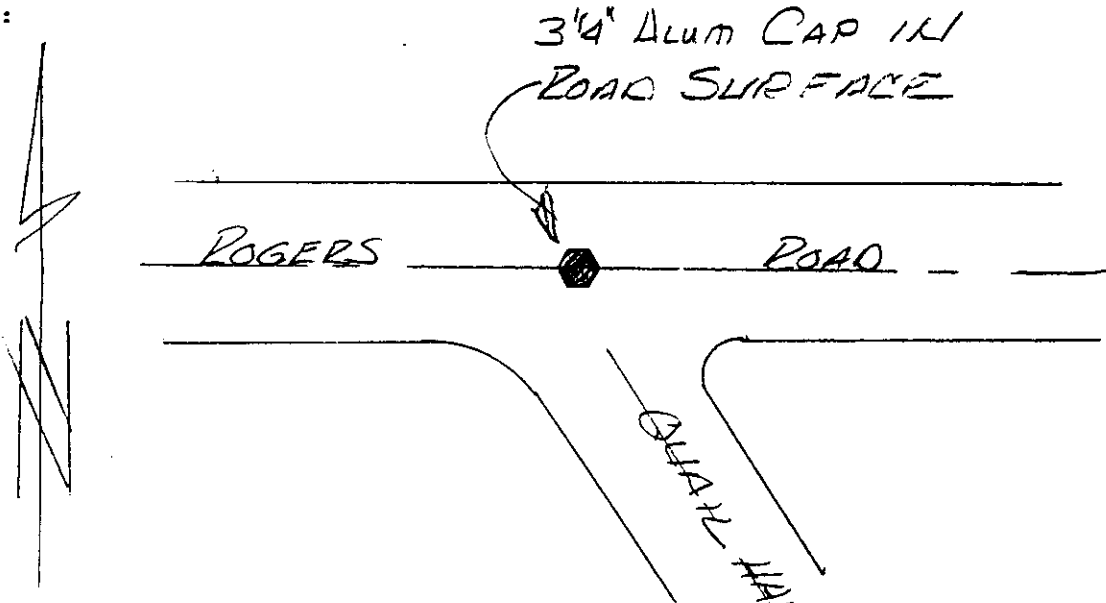
MARK: 17120340 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°07'51.427460"	
Longitude:	121°17'01.427270"	
Northing:	412313.4382	0.016
Easting:	3299895.8861	0.014
Convergence:	-0°00'00.9938"	
Scale Factor:	1.000160000012	
Ellipsoid Height:	3311.0826	0.032
Orthometric Height:	3376.0182	0.042
Geoid Height:	-64.9356	

CONTROL MARK DATA

NAME OF MARK: 17120400 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 17S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 126

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

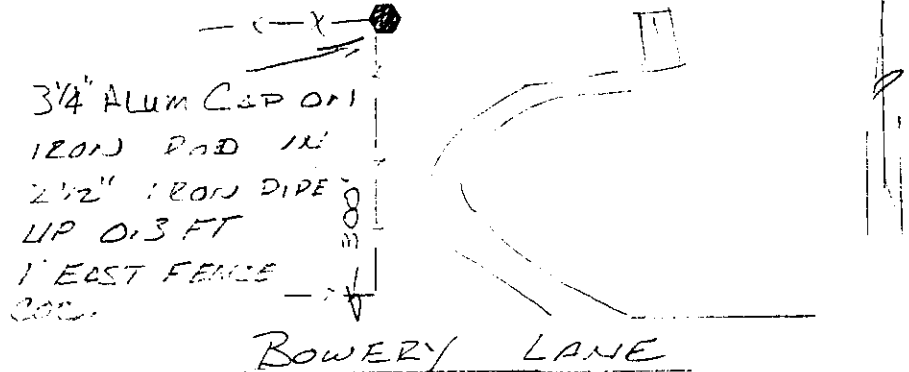
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.314970"	ONE SIGMA ERROR
Longitude:	121°18'13.385390"	
Northing:	409669.4283	0.009
Easting:	3294646.1615	0.008
Convergence:	-0°00'51.0916"	
Scale Factor:	1.000160032732	
Ellipsoid Height:	3356.6575	0.012
Orthometric Height:	3421.5602	0.015
Geoid Height:	-64.9027	

CONTROL MARK DATA

NAME OF MARK: 17120404 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/2087 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 127

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

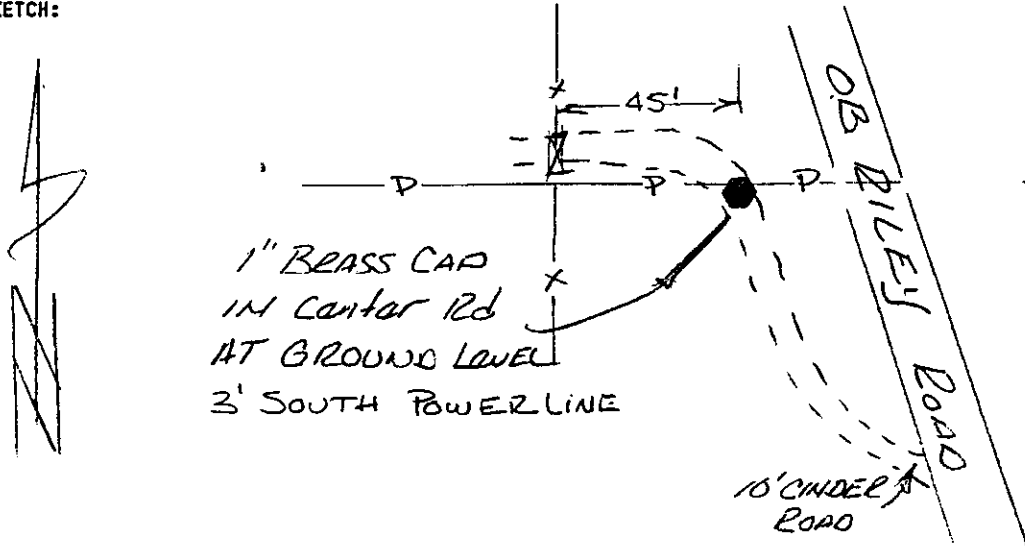
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.322209"	ONE SIGMA ERROR
Longitude:	121°17'37.571059"	
Northing:	409669.6722	0.017
Easting:	3297258.9997	0.016
Convergence:	-0°00'26.1573"	
Scale Factor:	1.000160008579	
Ellipsoid Height:	3347.0622	0.027
Orthometric Height:	3411.9458	0.028
Geoid Height:	-64.8836	

CONTROL MARK DATA

NAME OF MARK: 17120500 COUNTY: DESCHUTES
 MARK SET BY: LS 0344 CHARLES REYNOLDS STATE: OREGON
 DATE OF MARK: 6/15/65 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR CS 4899

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

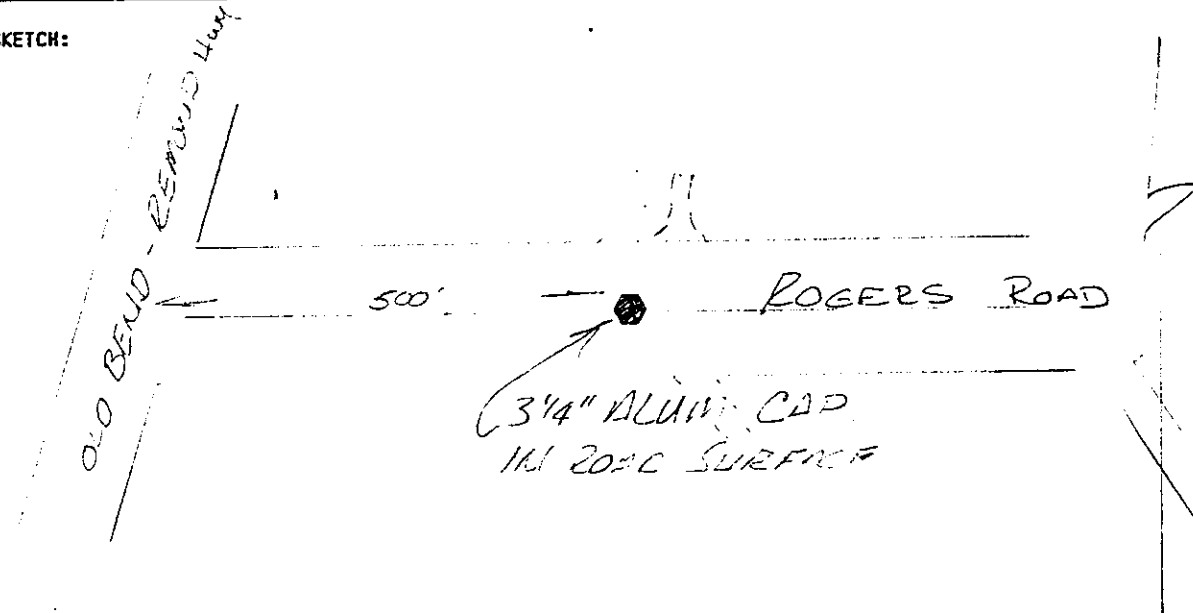
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.204790"	ONE SIGMA ERROR
Longitude:	121°19'25.806481"	
Northing:	409660.2237	0.010
Easting:	3289362.668	0.010
Convergence:	-0°01'41.5118"	
Scale Factor:	1.000160129212	
Ellipsoid Height:	3357.6694	0.014
Orthometric Height:	3422.5998	0.018
Geoid Height:	-64.9304	

CONTROL MARK DATA

NAME OF MARK: 17120504 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 125

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

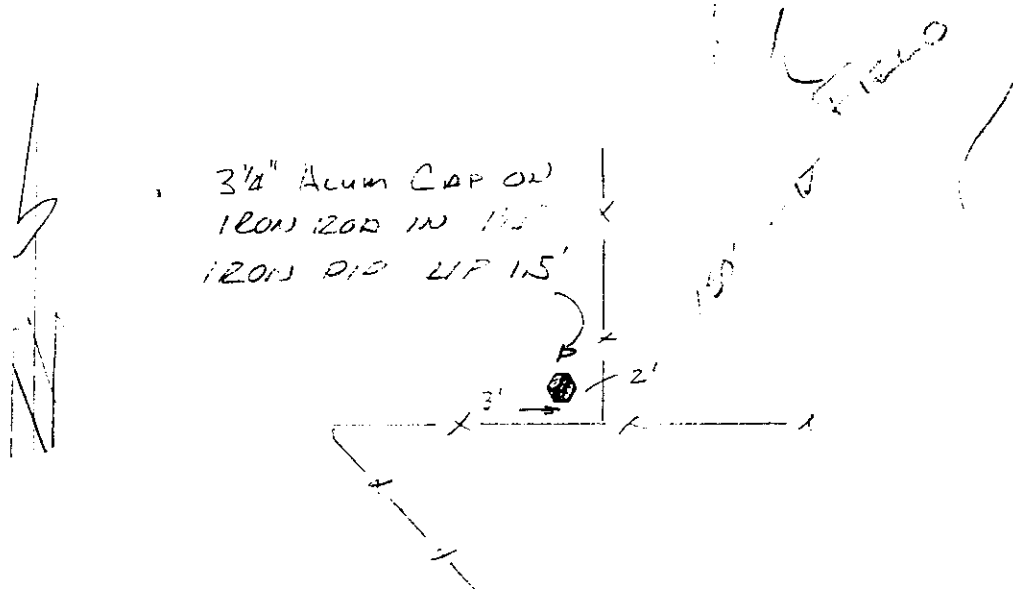
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120504</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.251383"	ONE SIGMA ERROR
Longitude:	121°18'49.671619"	
Northing:	409663.806	0.012
Easting:	3291998.8936	0.011
Convergence:	-0°01'16.3544"	
Scale Factor:	1.000160073106	
Ellipsoid Height:	3356.1462	0.016
Orthometric Height:	3421.0647	0.019
Geoid Height:	-64.9184	

CONTROL MARK DATA

NAME OF MARK: 17120540 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 118

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

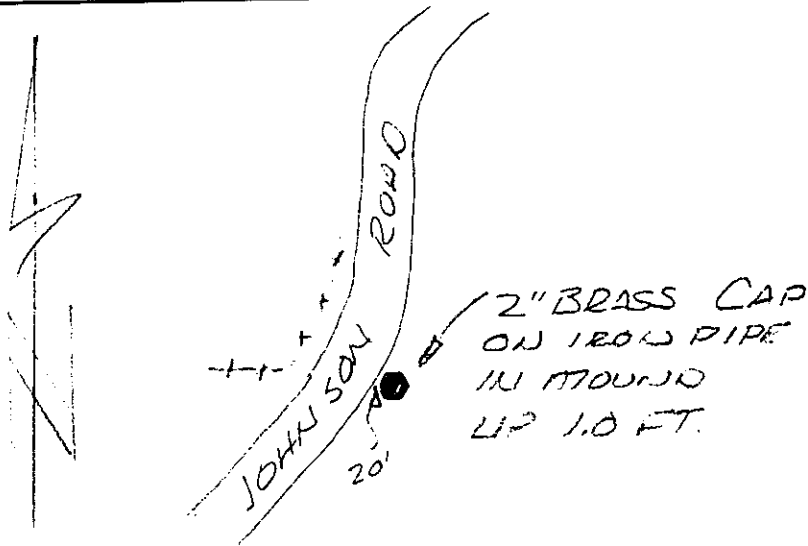
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'51.453984"	ONE SIGMA ERROR
Longitude:	121°19'25.433354"	
Northing:	412318.7285	0.013
Easting:	3289391.1946	0.012
Convergence:	-0°01'41.2654"	
Scale Factor:	1.000160128520	
Ellipsoid Height:	3291.4345	0.017
Orthometric Height:	3356.449	0.021
Geoid Height:	-65.0145	

CONTROL MARK DATA

NAME OF MARK: 17120600 COUNTY: DESCHUTES
MARK SET BY: U.S. GOVERNMENT ? STATE: OREGON
DATE OF MARK: 1915+- COUNTRY: U.S.A.
LOCATION: SECTION 6 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 123

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

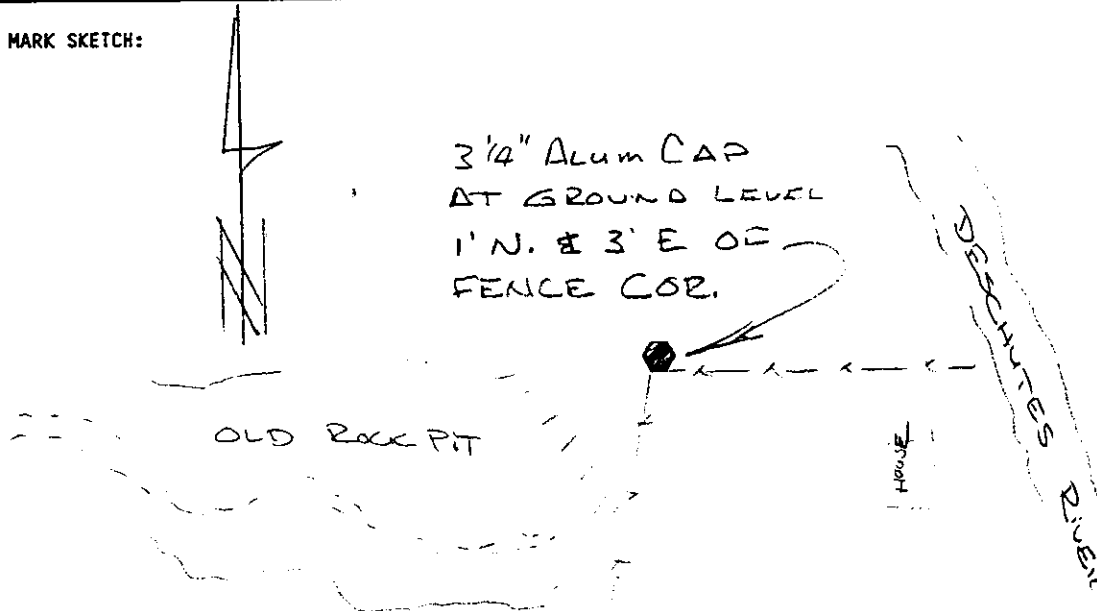
MARK: 17120600 HORIZONTAL ORDER: FIRST

Latitude:	44°07'25.375219"	ONE SIGMA ERROR
Longitude:	121°20'36.146907"	
Northing:	409680.6195	0.011
Easting:	3284230.9849	0.011
Convergence:	-0°02'30.4837"	
Scale Factor:	1.000160283953	
Ellipsoid Height:	3281.2348	0.015
Orthometric Height:	3346.1811	0.018
Geoid Height:	-64.9463	

CONTROL MARK DATA

NAME OF MARK: 17120604 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 124

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

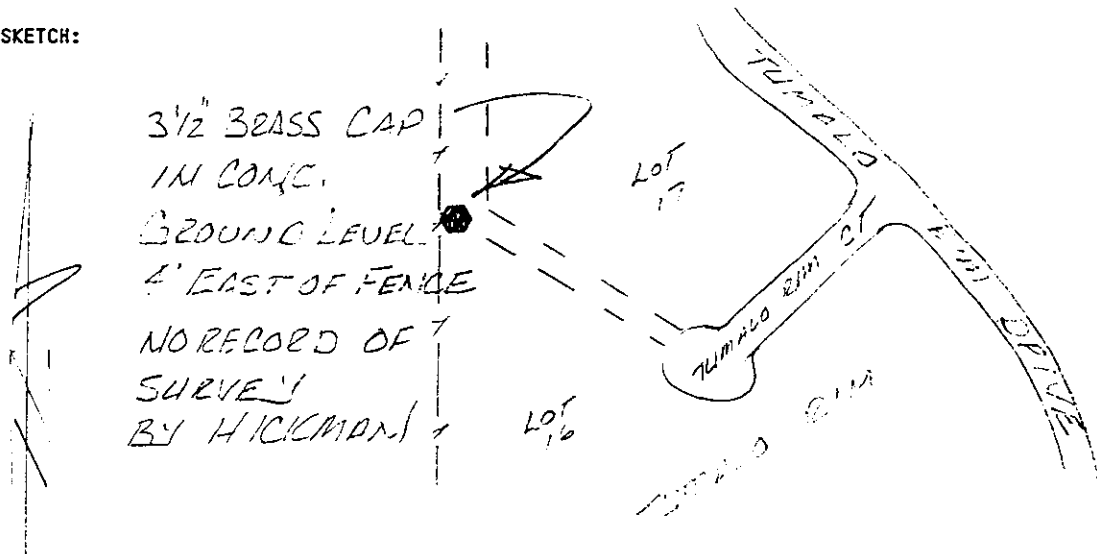
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'25.368638"	ONE SIGMA ERROR
Longitude:	121°20'01.879002"	
Northing:	409678.2737	0.013
Easting:	3286731.0024	0.013
Convergence:	-0°02'06.6260"	
Scale Factor:	1.000160201054	
Ellipsoid Height:	3194.0027	0.018
Orthometric Height:	3258.9477	0.021
Geoid Height:	-64.945	

CONTROL MARK DATA

NAME OF MARK: 17120640 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 094

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

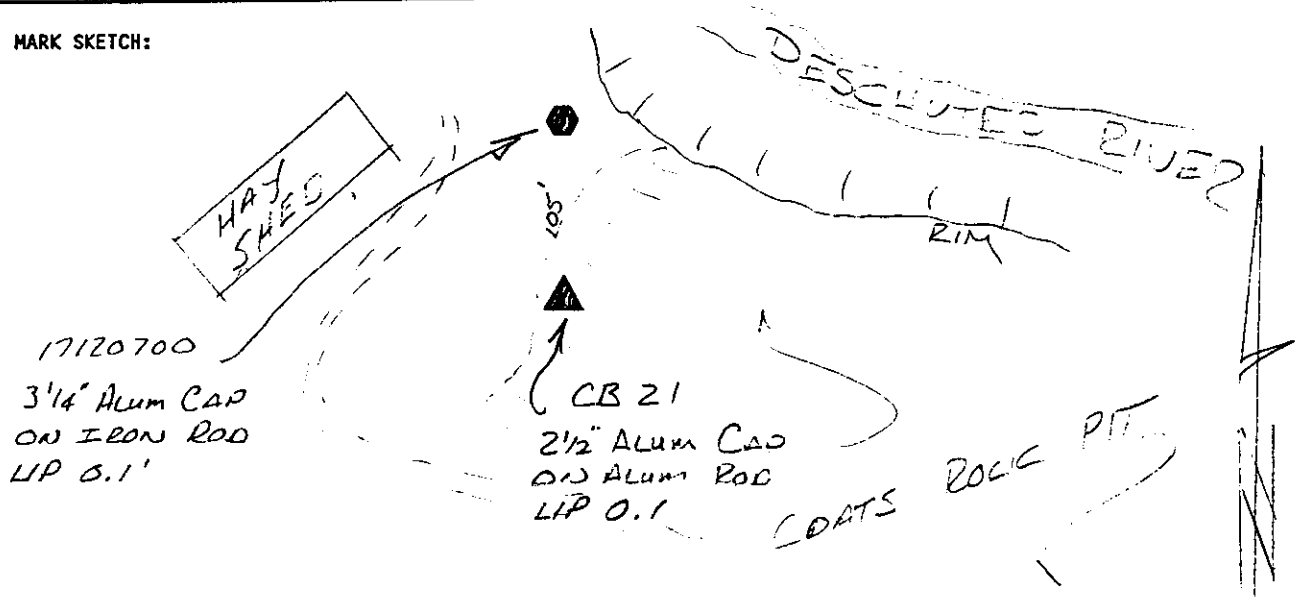
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120640</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°07'51.537769"	ONE SIGMA ERROR
Longitude:	121°20'36.099675"	
Northing:	412330.3598	0.013
Easting:	3284236.3637	0.013
Convergence:	-0°02'30.4705"	
Scale Factor:	1.000160283759	
Ellipsoid Height:	3275.2576	0.019
Orthometric Height:	3340.297	0.022
Geoid Height:	-65.0394	

CONTROL MARK DATA

NAME OF MARK: 17120700 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 138

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

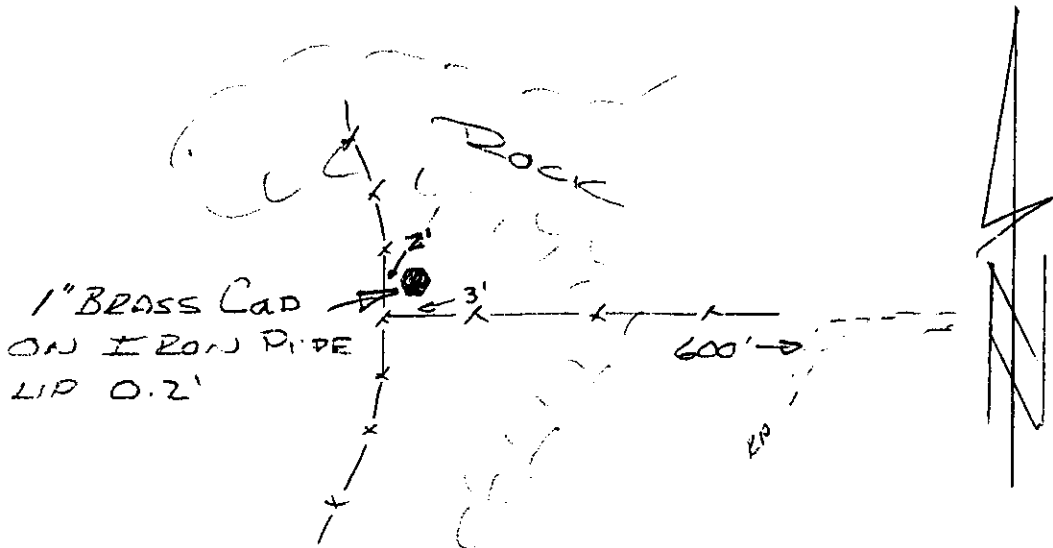
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120700</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.514317"	ONE SIGMA ERROR
Longitude:	121°20'36.185469"	
Northing:	404428.1599	0.026
Easting:	3284224.3395	0.025
Convergence:	-0°02'30.4715"	
Scale Factor:	1.000160284193	
Ellipsoid Height:	3402.9617	0.028
Orthometric Height:	3467.7724	0.029
Geoid Height:	-64.8107	

CONTROL MARK DATA

NAME OF MARK: 17120800 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 139

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

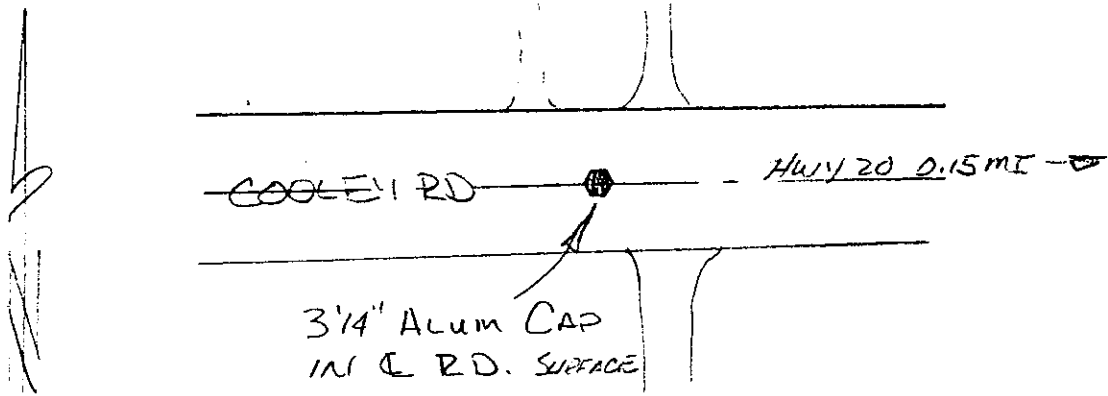
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120800</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.104135"	ONE
Longitude:	121°19'25.931024"	SIGMA
		ERROR
Northing:	404383.4844	0.011
Easting:	3289350.9831	0.010
Convergence:	-0°01'41.5721"	
Scale Factor:	1.000160129496	
Ellipsoid Height:	3443.4068	0.014
Orthometric Height:	3508.2085	0.018
Geoid Height:	-64.8016	

CONTROL MARK DATA

NAME OF MARK: 17120804 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 140

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

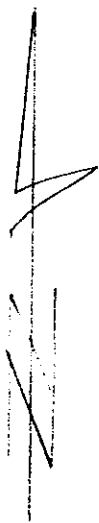
GEODITIC AND MAPPING COORDINATES

MARK: <u>17120804</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°06'33.086683"</u>	ONE SIGMA ERROR
Longitude:	<u>121°18'49.622567"</u>	
Northing:	<u>404380.5746</u>	<u>0.012</u>
Easting:	<u>3292000.5176</u>	<u>0.011</u>
Convergence:	<u>-0°01'16.3004"</u>	
Scale Factor:	<u>1.000160073074</u>	
Ellipsoid Height:	<u>3419.6491</u>	<u>0.015</u>
Orthometric Height:	<u>3484.4416</u>	<u>0.018</u>
Geoid Height:	<u>-64.7925</u>	

CONTROL MARK DATA

NAME OF MARK: 17120840 COUNTY: DESCHUTES
MARK SET BY: LS 0344 CHARLES REYNOLDS STATE: OREGON
DATE OF MARK: 6/15/65 COUNTRY: U.S.A.
LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR CS 4899

MARK SKETCH:



1" BRASS CAP
ON IRON PIPE
UP 0.2 FT
1 FT SOUTH CORNER
OF FENCE

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

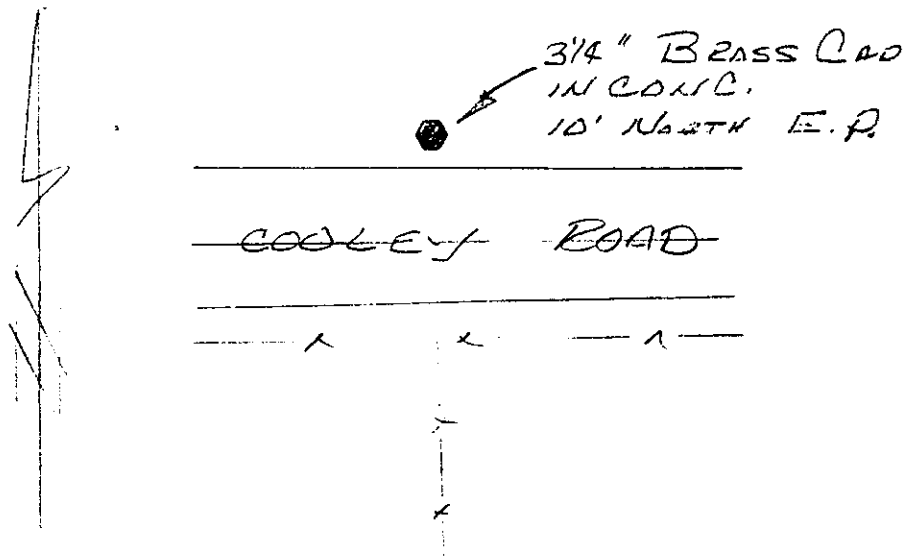
MARK: 17120840 HORIZONTAL ORDER: FIRST

Latitude:	44°06'59.148271"	ONE
Longitude:	121°19'25.873490"	SIGMA
Northing:	407021.2256	ERROR
Easting:	3289356.4801	0.011
Convergence:	-0°01'41.5453"	0.011
Scale Factor:	1.000160129362	
Ellipsoid Height:	3405.659	0.015
Orthometric Height:	3470.5246	0.019
Geoid Height:	-64.8656	

CONTROL MARK DATA

NAME OF MARK: 17120900 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 9/21/91 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1112

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

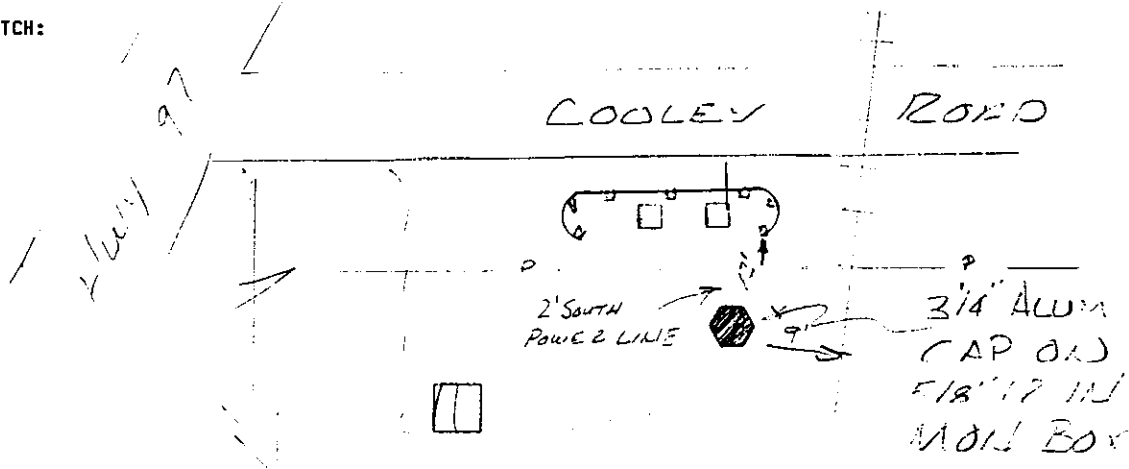
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120900</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.100282"	ONE SIGMA ERROR
Longitude:	121°18'13.427649"	
Northing:	404381.1361	0.012
Easting:	3294641.768	0.011
Convergence:	-0°00'51.1077"	
Scale Factor:	1.000160032785	
Ellipsoid Height:	3423.8169	0.016
Orthometric Height:	3488.5968	0.017
Geoid Height:	-64.7799	

CONTROL MARK DATA

NAME OF MARK: 17120904 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1196

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

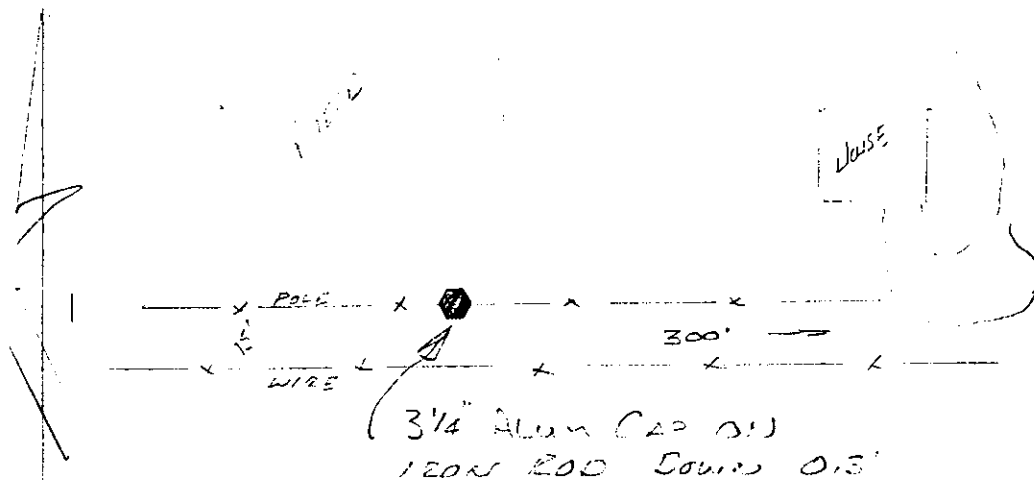
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120904</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.120168"	ONE SIGMA ERROR
Longitude:	121°17'37.184347"	
Northing:	404382.6565	0.011
Easting:	3297286.5488	0.012
Convergence:	-0°00'25.8814"	
Scale Factor:	1.000160008408	
Ellipsoid Height:	3392.694	0.021
Orthometric Height:	3457.4622	0.034
Geoid Height:	-64.7682	

CONTROL MARK DATA

NAME OF MARK: 17120940 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 135

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

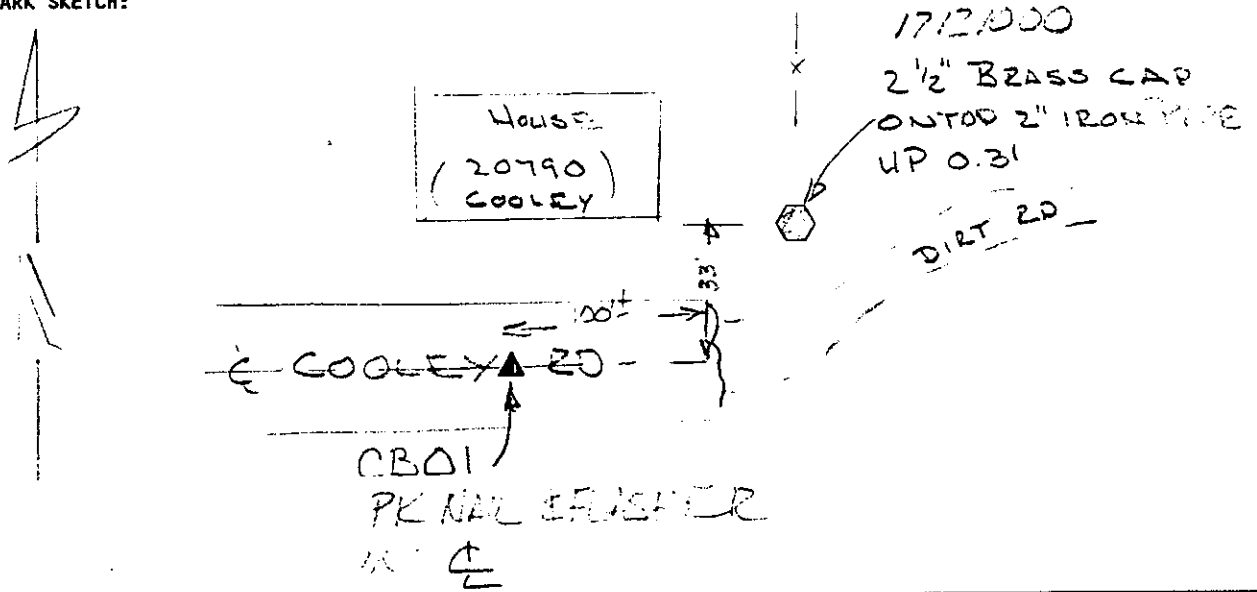
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120940</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°06'59.193142"	ONE SIGMA ERROR
Longitude:	121°18'13.407190"	
Northing:	407023.8135	0.009
Easting:	3294643.9156	0.008
Convergence:	-0°00'51.1001"	
Scale Factor:	1.000160032759	
Ellipsoid Height:	3384.3789	0.012
Orthometric Height:	3449.2195	0.014
Geoid Height:	-64.8407	

CONTROL MARK DATA

NAME OF MARK: 17121000 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1976 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 143

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

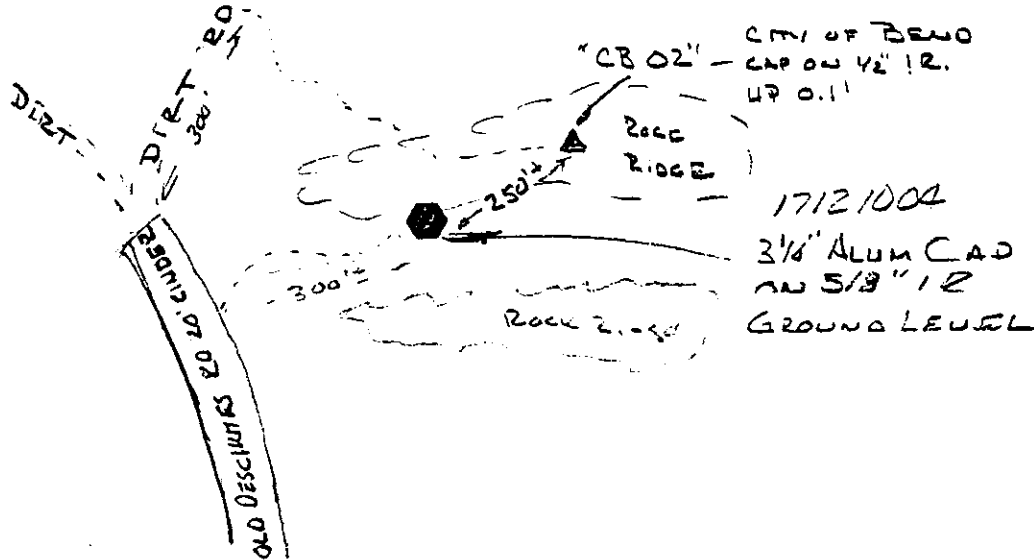
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121000</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.108489"	ONE SIGMA ERROR
Longitude:	121°17'01.489783"	
Northing:	404381.3037	0.026
Easting:	3299891.2862	0.039
Convergence:	-0°00'01.0369"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3393.5818	0.048
Orthometric Height:	3458.3317	0.048
Geoid Height:	-64.7499	

CONTROL MARK DATA

NAME OF MARK: 17121004 COUNTY: DESCHUTES
MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 144

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

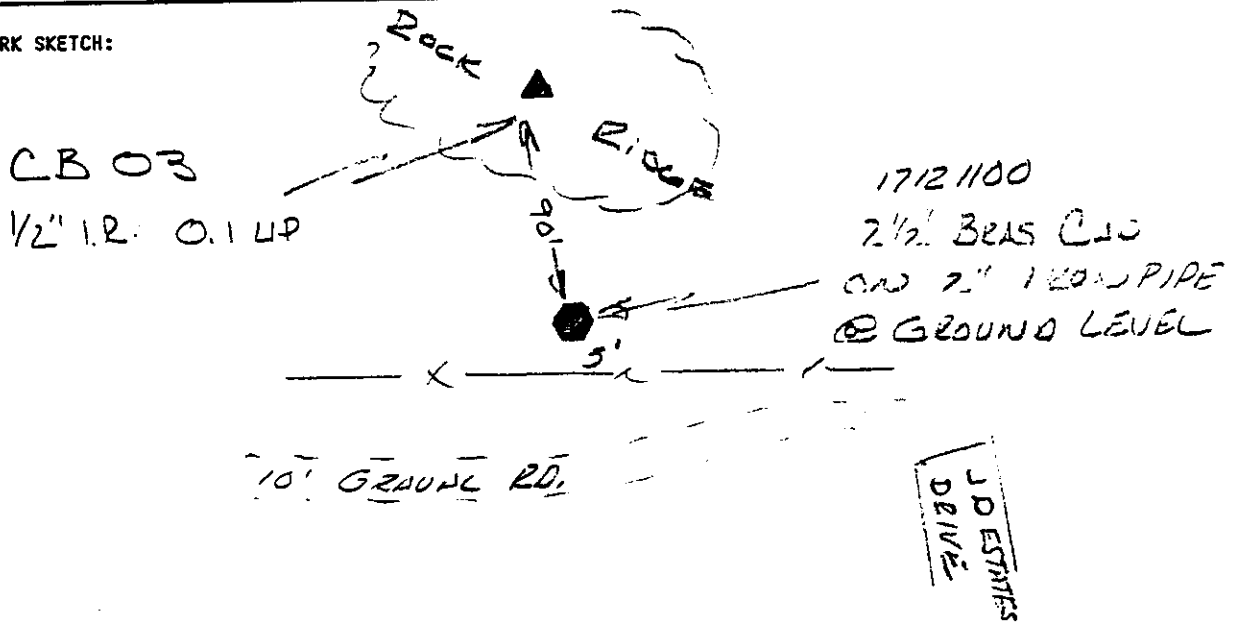
MARK: 17121004 HORIZONTAL ORDER: SECOND

Latitude:	44°06'33.287695"	ONE SIGMA ERROR
Longitude:	121°16'25.531619"	
Northing:	404399.5997	0.034
Easting:	3302515.2571	0.038
Convergence:	+0°00'23.9910"	
Scale Factor:	1.000160007224	
Ellipsoid Height:	3388.07	0.064
Orthometric Height:	3452.7941	0.064
Geoid Height:	-64.7241	

CONTROL MARK DATA

NAME OF MARK: 17121100 COUNTY: DESCHUTES
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON
 DATE OF MARK: 1978 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 145

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

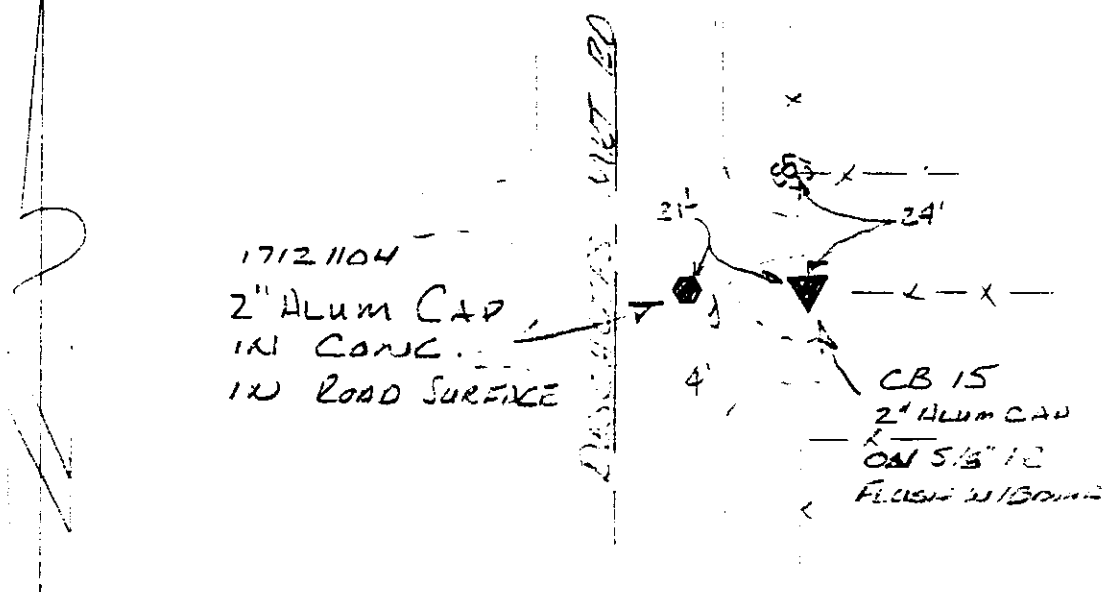
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121100</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°06'33.405173"	ONE SIGMA ERROR
Longitude:	121°15'49.676034"	
Northing:	404411.9605	0.043
Easting:	3305131.7398	0.022
Convergence:	+0°00'48.9475"	
Scale Factor:	1.000160030072	
Ellipsoid Height:	3365.3568	0.050
Orthometric Height:	3430.0594	0.050
Geoid Height:	-64.7026	

CONTROL MARK DATA

NAME OF MARK: 17121104 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1985 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 101&360

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

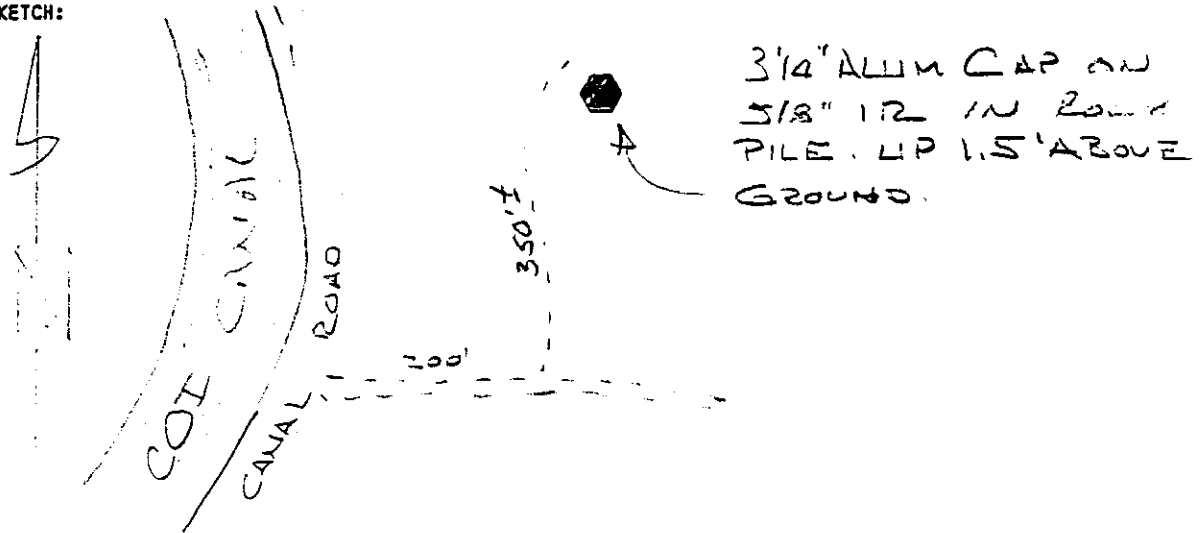
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121104</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.433011"	ONE SIGMA ERROR
Longitude:	121°15'13.190829"	
Northing:	404415.5755	0.013
Easting:	3307794.1679	0.040
Convergence:	+0°01'14.3423"	
Scale Factor:	1.000160069371	
Ellipsoid Height:	3342.8826	0.046
Orthometric Height:	3407.5569	0.046
Geoid Height:	-64.6743	

CONTROL MARK DATA

NAME OF MARK: 17121140 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 136

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

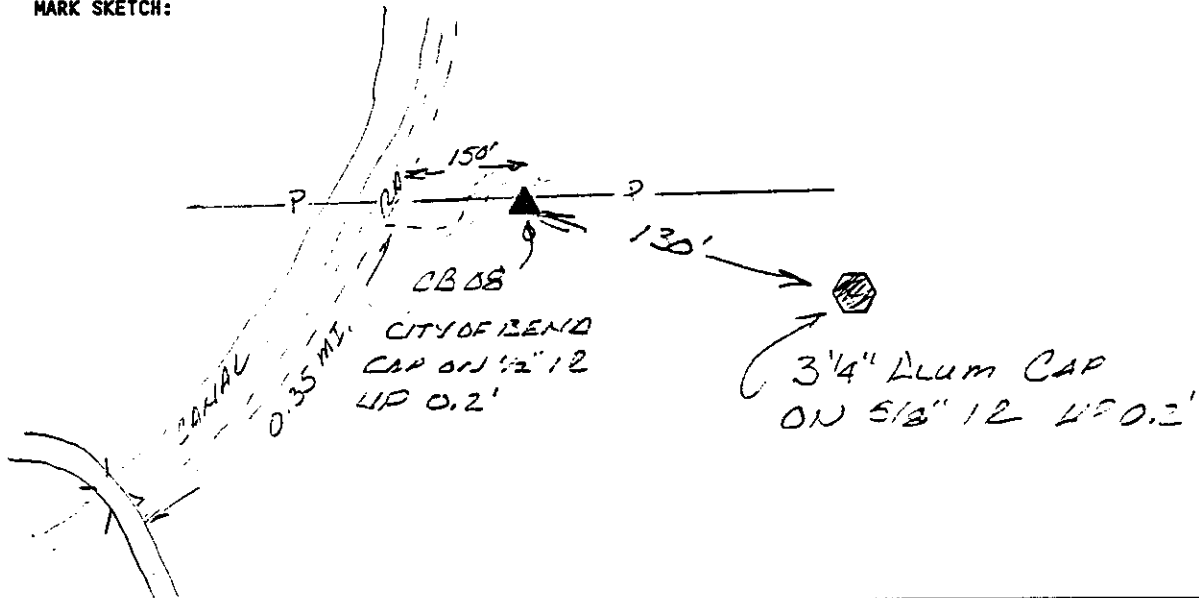
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'59.471028"	ONE SIGMA ERROR
Longitude:	121°15'49.673442"	
Northing:	407051.9033	0.012
Easting:	3305131.3024	0.011
Convergence:	+0°00'48.9557"	
Scale Factor:	1.000160030067	
Ellipsoid Height:	3326.7134	0.020
Orthometric Height:	3391.4694	0.033
Geoid Height:	-64.756	

CONTROL MARK DATA

NAME OF MARK: 17121200 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 146

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

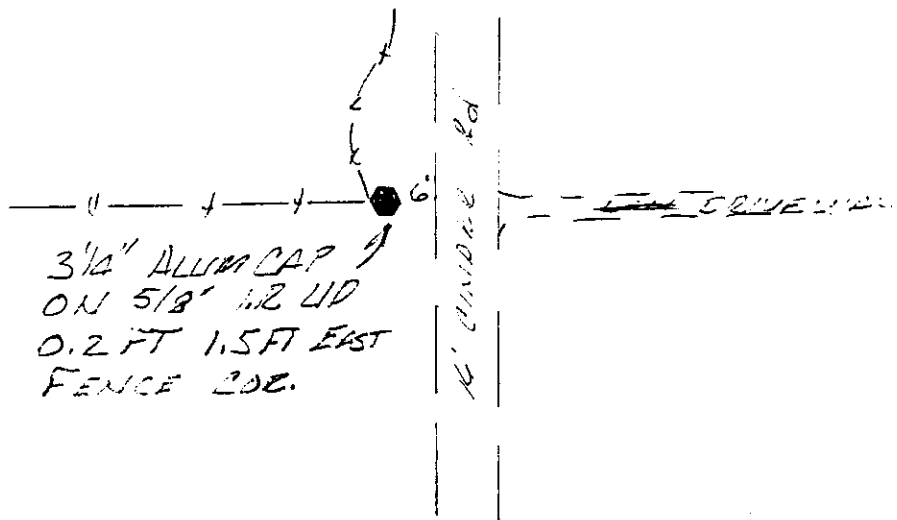
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121200</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.517369"	ONE SIGMA ERROR
Longitude:	121°14'36.706180"	
Northing:	404425.2428	0.019
Easting:	3310456.5521	0.043
Convergence:	+0°01'39.7367"	
Scale Factor:	1.000160124858	
Ellipsoid Height:	3350.5964	0.052
Orthometric Height:	3415.2455	0.052
Geoid Height:	-64.6491	

CONTROL MARK DATA

NAME OF MARK: 17121204 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/29/87 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 147

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

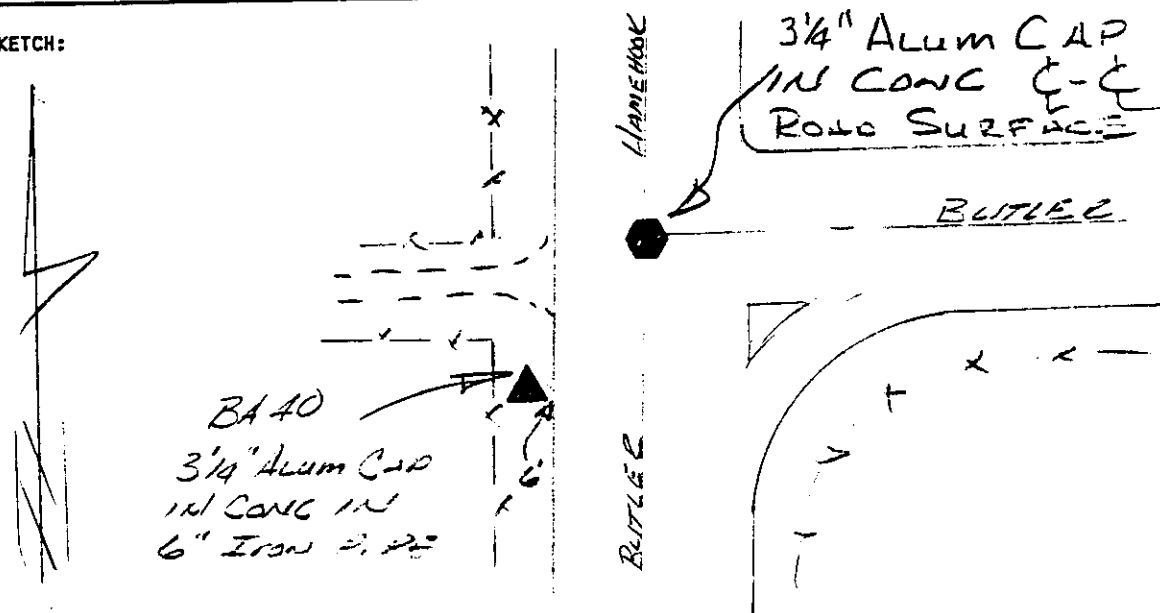
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121204</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°06'33.202046"	ONE SIGMA ERROR
Longitude:	121°14'00.633209"	
Northing:	404394.74	0.011
Easting:	3313088.9174	0.010
Convergence:	+0°02'04.8444"	
Scale Factor:	1.000160195635	
Ellipsoid Height:	3334.8884	0.021
Orthometric Height:	3399.506	0.032
Geoid Height:	-64.6176	

CONTROL MARK DATA

NAME OF MARK: 17121300 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 161

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

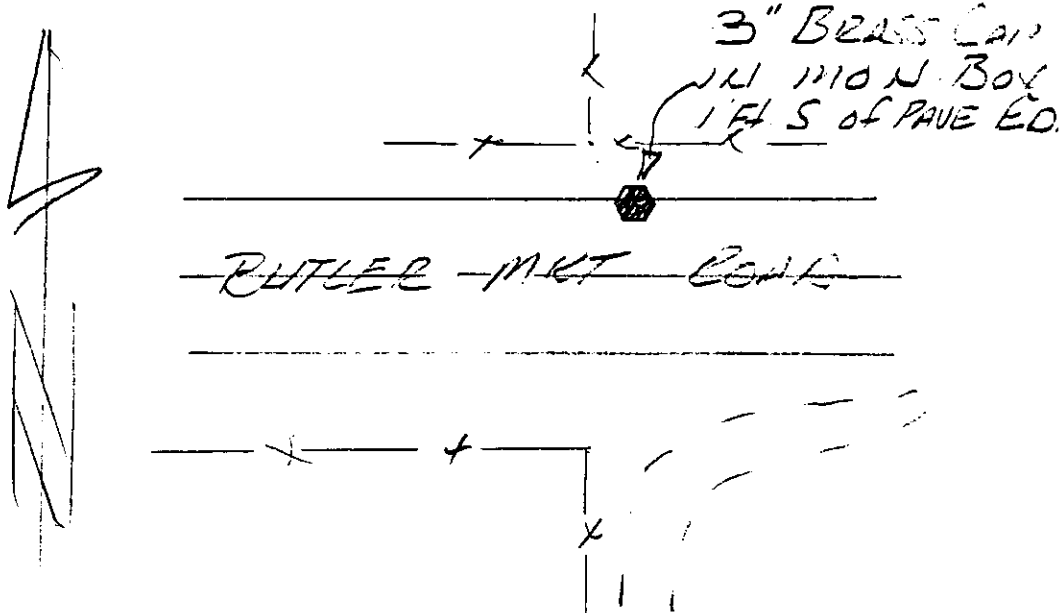
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121300</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'41.073775"	ONE SIGMA ERROR
Longitude:	121°14'36.593970"	
Northing:	399113.7837	0.041
Easting:	3310467.3103	0.025
Convergence:	+0°01'39.7886"	
Scale Factor:	1.000160125115	
Ellipsoid Height:	3374.7631	0.051
Orthometric Height:	3439.2996	0.051
Geoid Height:	-64.5364	

CONTROL MARK DATA

NAME OF MARK: 17121304 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1198

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

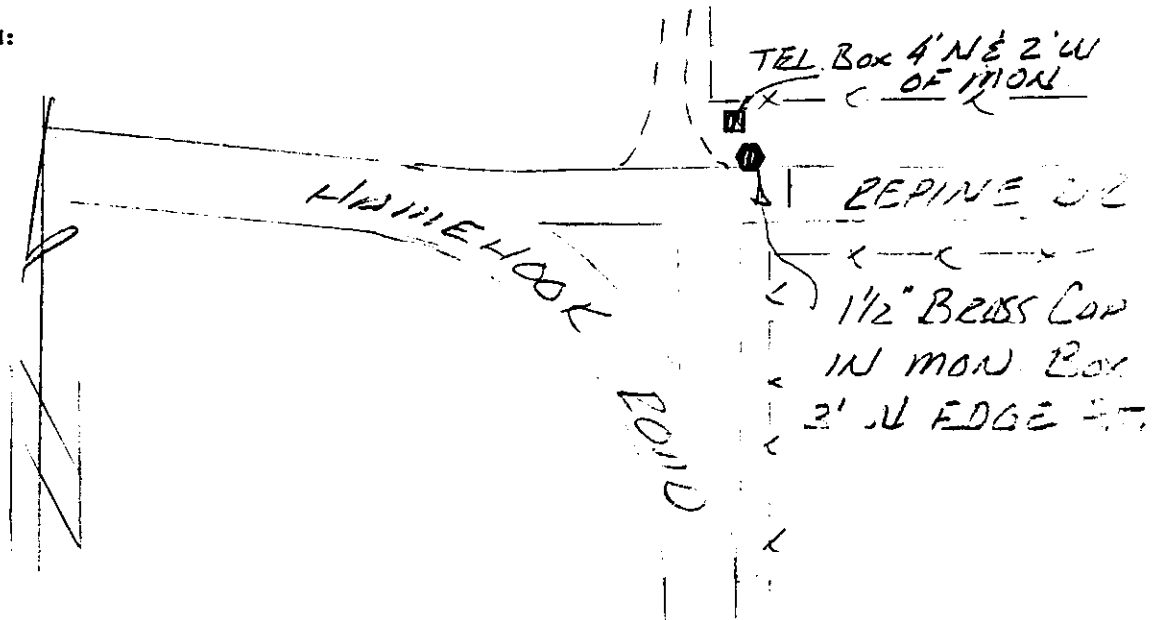
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121304</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'40.879541"	ONE
Longitude:	121°14'00.700435"	SIGMA
Northing:	399095.5379	ERROR
Easting:	3313087.2174	0.036
Convergence:	+0°02'04.7649"	0.046
Scale Factor:	1.000160195585	
Ellipsoid Height:	3391.2204	0.065
Orthometric Height:	3455.7276	0.065
Geoid Height:	-64.5073	

CONTROL MARK DATA

NAME OF MARK: 17121340 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 152

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

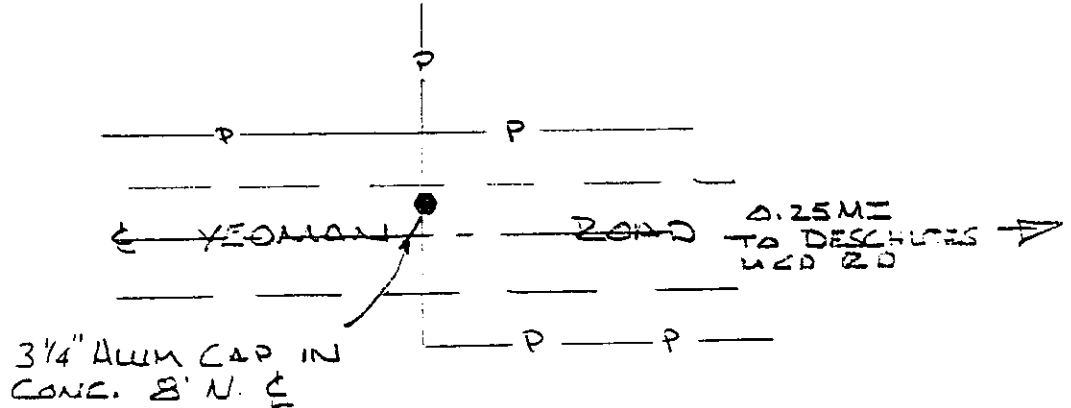
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'07.352206"	ONE SIGMA ERROR
Longitude:	121°14'36.655076"	
Northing:	401775.2472	0.013
Easting:	3310461.5631	0.012
Convergence:	+0°01'39.7592"	
Scale Factor:	1.000160124978	
Ellipsoid Height:	3361.9365	0.023
Orthometric Height:	3426.5291	0.034
Geoid Height:	-64.5926	

CONTROL MARK DATA

NAME OF MARK: 17121400 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 159

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

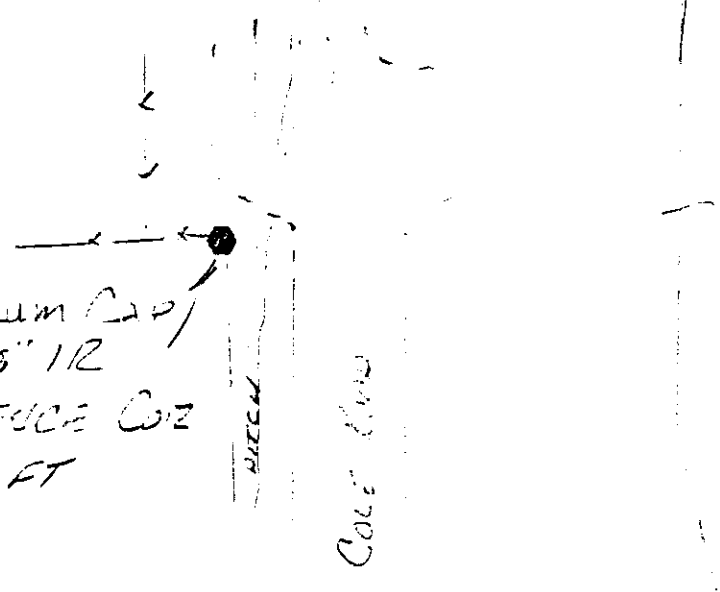
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'41.120400"	ONE SIGMA ERROR
Longitude:	121°15'49.434738"	
Northing:	399116.5869	0.016
Easting:	3305150.6086	0.014
Convergence:	+0°00'49.1026"	
Scale Factor:	1.000160030294	
Ellipsoid Height:	3394.1307	0.028
Orthometric Height:	3458.7171	0.038
Geoid Height:	-64.5864	

CONTROL MARK DATA

NAME OF MARK: 17121404 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 160

MARK SKETCH:



 3/4" Alum Cap
 ON 5/8" IR
 AT FENCE COR
 UP 0.1 FT

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

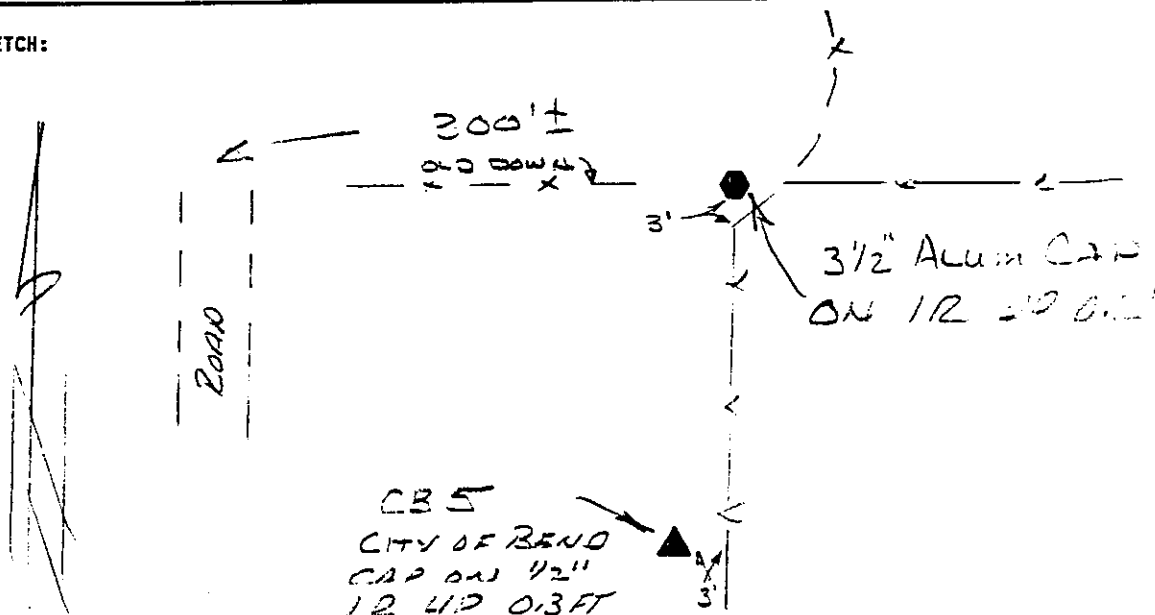
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121404</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°05'41.104681"	ONE
Longitude:	121°15'13.149045"	SIGMA
Northing:	399115.7875	ERROR
Easting:	3307799.1277	0.011
Convergence:	+0°01'14.3519"	0.012
Scale Factor:	1.000160069460	
Ellipsoid Height:	3394.5555	0.019
Orthometric Height:	3459.1201	0.031
Geoid Height:	-64.5646	

CONTROL MARK DATA

NAME OF MARK: 17121440 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 151

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

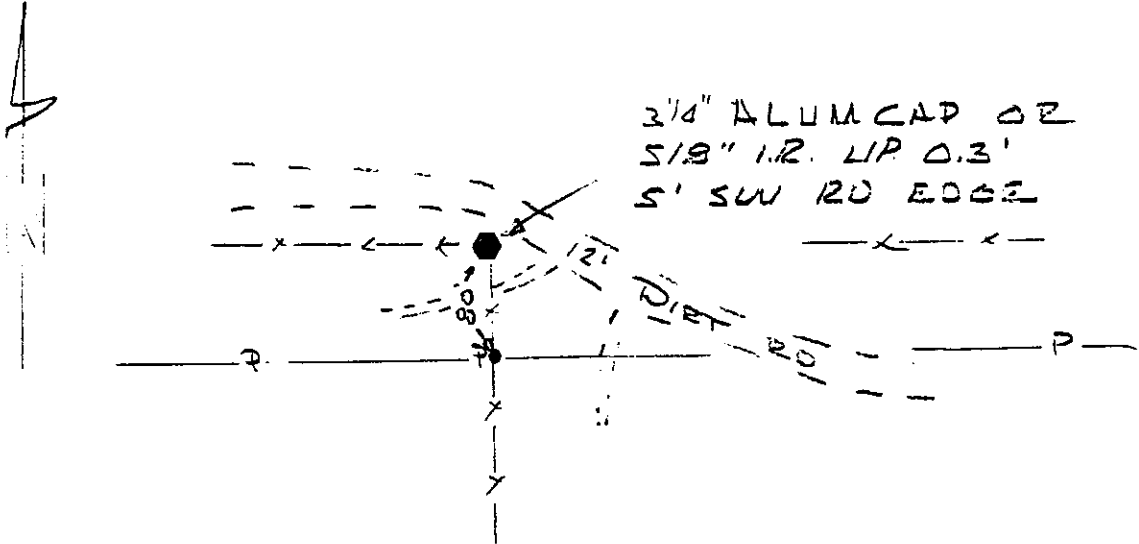
GEODITIC AND MAPPING COORDINATES

MARK: <u>17121440</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'07.271518"	ONE SIGMA ERROR
Longitude:	121°15'49.554362"	
Northing:	401765.1563	0.044
Easting:	3305141.2477	0.016
Convergence:	+0°00'49.0258"	
Scale Factor:	1.000160030184	
Ellipsoid Height:	3388.7071	0.046
Orthometric Height:	3453.3502	0.046
Geoid Height:	-64.6431	

CONTROL MARK DATA

NAME OF MARK: 17121500 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 157

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

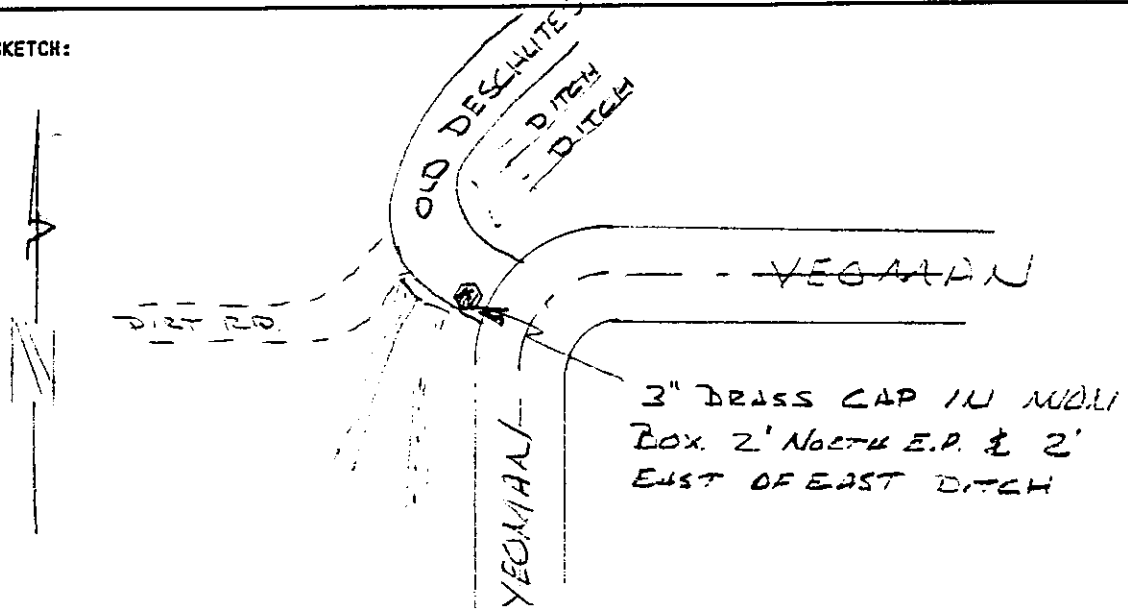
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.886145"	ONE SIGMA ERROR
Longitude:	121°17'01.493902"	
Northing:	399092.2489	0.017
Easting:	3299890.9589	0.016
Convergence:	-0°00'01.0395"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3411.7102	0.030
Orthometric Height:	3476.3436	0.039
Geoid Height:	-64.6334	

CONTROL MARK DATA

NAME OF MARK: 17121504 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 158

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

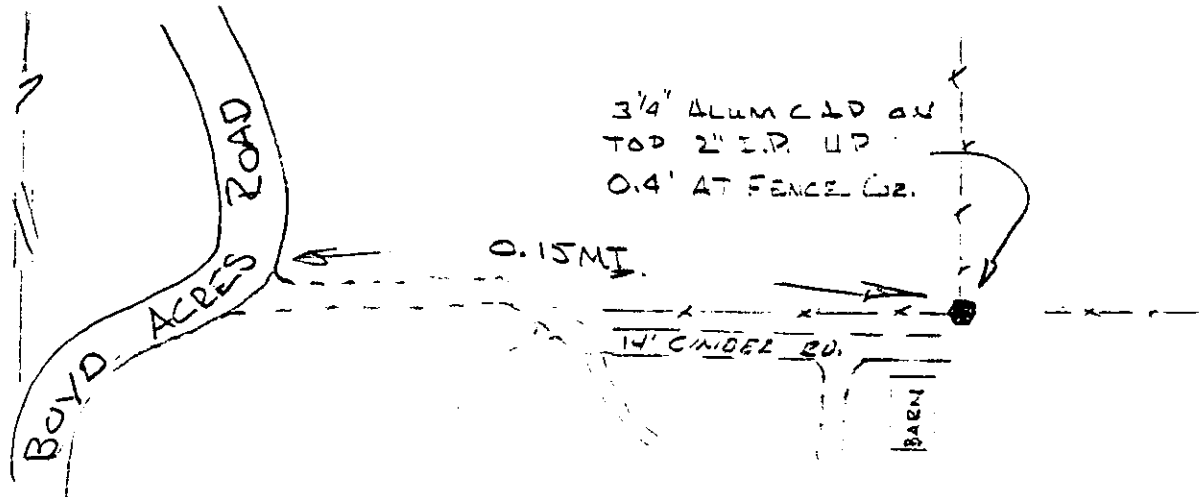
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121504</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°05'40.952307"	ONE SIGMA ERROR
Longitude:	121°16'25.450877"	
Northing:	399099.0964	0.013
Easting:	3302521.767	0.013
Convergence:	+0°00'24.0409"	
Scale Factor:	1.000160007262	
Ellipsoid Height:	3406.5612	0.024
Orthometric Height:	3471.1694	0.035
Geoid Height:	-64.6082	

CONTROL MARK DATA

NAME OF MARK: 17121540 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 150

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

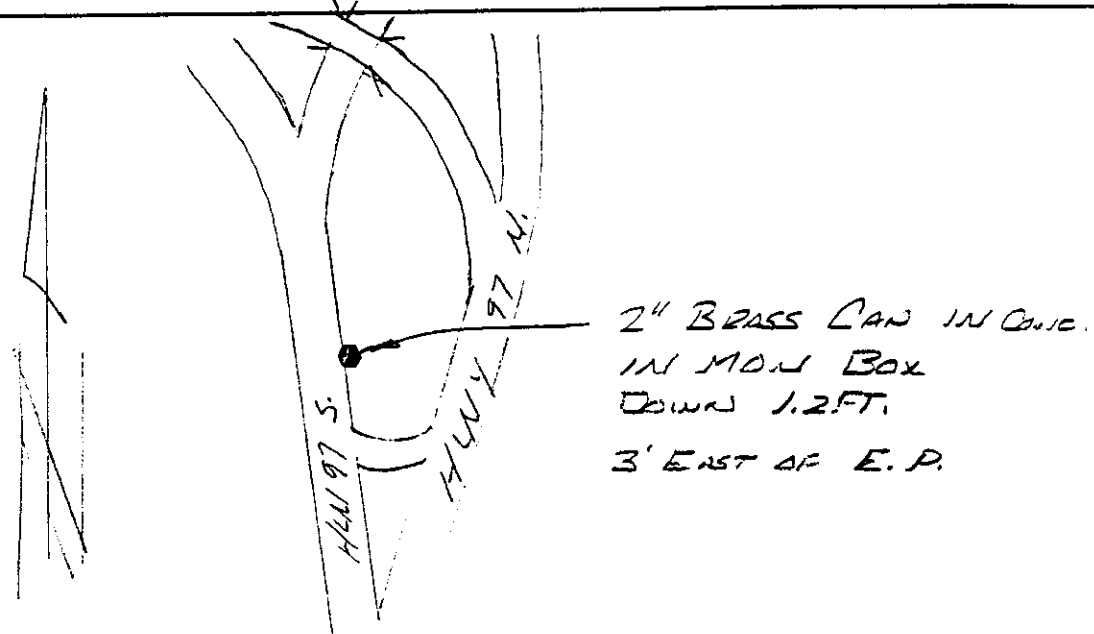
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'06.998769"	ONE SIGMA ERROR
Longitude:	121°17'01.550836"	
Northing:	401736.9217	0.011
Easting:	3299886.8171	0.011
Convergence:	-0°00'01.0793"	
Scale Factor:	1.000160000015	
Ellipsoid Height:	3411.9506	0.020
Orthometric Height:	3476.6438	0.033
Geoid Height:	-64.6932	

CONTROL MARK DATA

NAME OF MARK: 17121600 COUNTY: DESCHUTES
 MARK SET BY: OREGON STATE HIGHWAY STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 55,1054

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

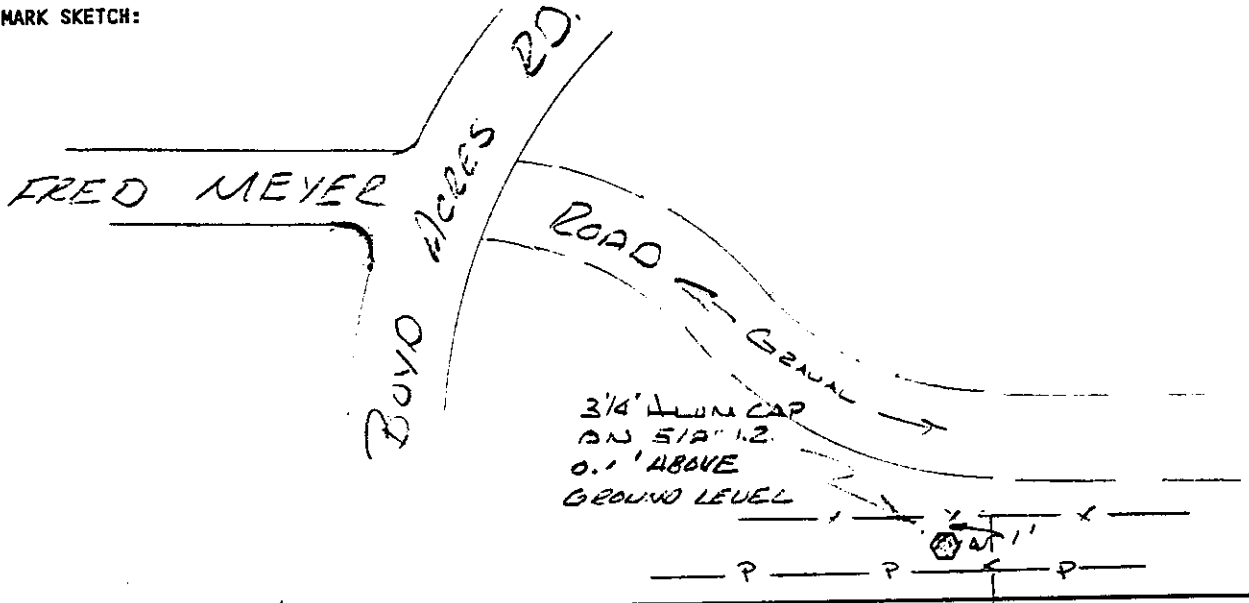
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121600</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°05'40.934751"	ONE SIGMA ERROR
Longitude:	121°18'13.523249"	
Northing:	399097.837	0.012
Easting:	3294633.4811	0.011
Convergence:	-0°00'51.1609"	
Scale Factor:	1.000160032887	
Ellipsoid Height:	3459.7858	0.027
Orthometric Height:	3524.4469	0.028
Geoid Height:	-64.6611	

CONTROL MARK DATA

NAME OF MARK: 17121604 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 156

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

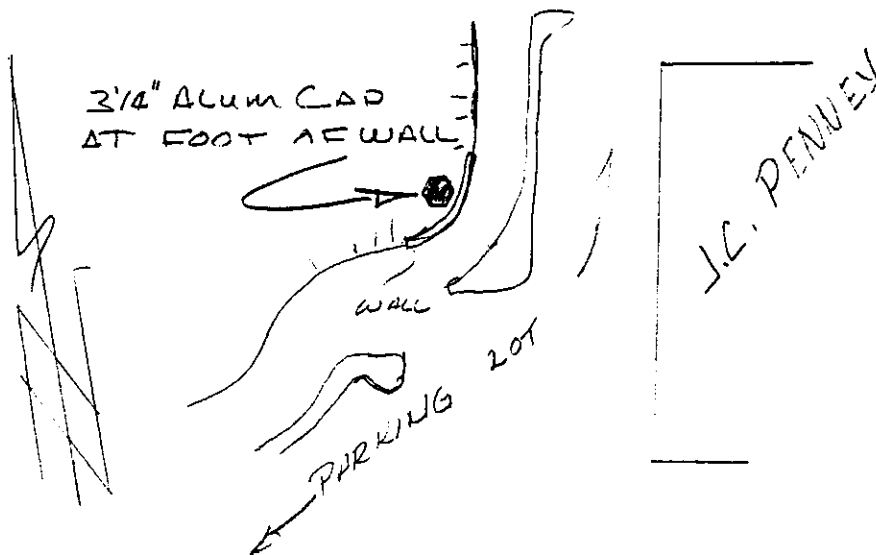
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121604</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°05'40.908798"	ONE SIGMA ERROR
Longitude:	121°17'37.506465"	
Northing:	399094.7162	0.014
Easting:	3297262.3737	0.013
Convergence:	-0°00'26.0987"	
Scale Factor:	1.000160008558	
Ellipsoid Height:	3436.2545	0.026
Orthometric Height:	3500.9031	0.037
Geoid Height:	-64.6486	

CONTROL MARK DATA

NAME OF MARK: 17121640 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 149

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

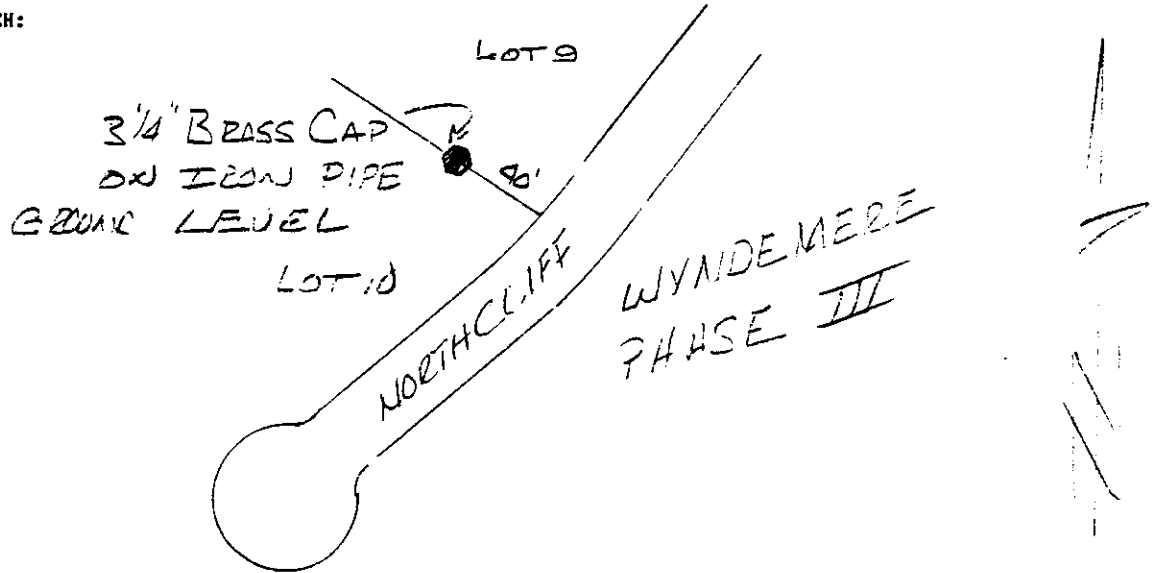
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121640</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'07.041504"	ONE SIGMA ERROR
Longitude:	121°18'13.403471"	
Northing:	401741.913	0.014
Easting:	3294642.8787	0.013
Convergence:	-0°00'51.0842"	
Scale Factor:	1.000160032772	
Ellipsoid Height:	3439.244	0.025
Orthometric Height:	3503.9626	0.025
Geoid Height:	-64.7186	

CONTROL MARK DATA

NAME OF MARK: 17121700 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 3/02/92 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1118

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

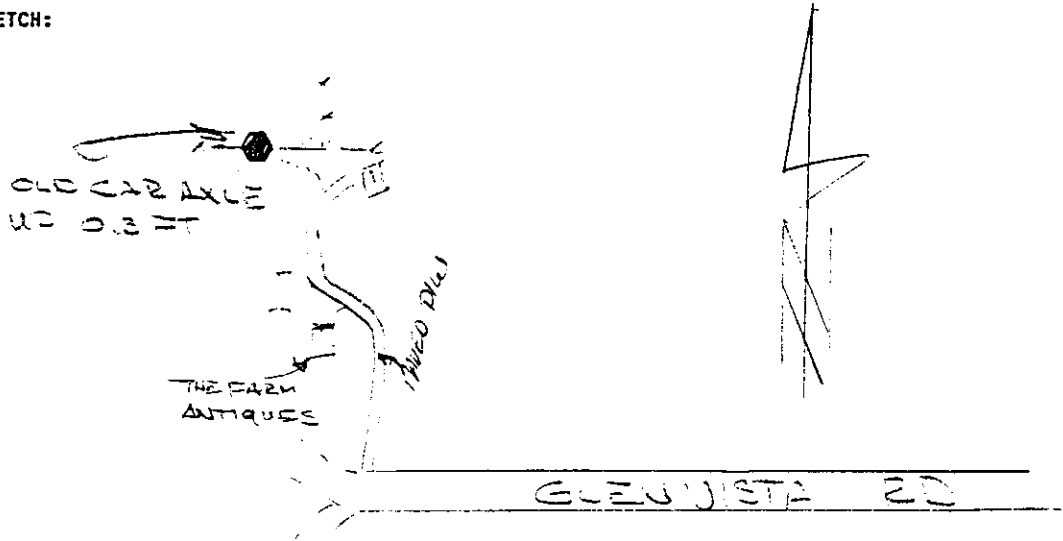
MARK: 17121700 HORIZONTAL ORDER: FIRST

Latitude:	44°05'41.320251"	ONE SIGMA ERROR
Longitude:	121°19'26.007685"	
Northing:	399138.8393	0.012
Easting:	3289342.8052	0.011
Convergence:	-0°01'41.5991"	
Scale Factor:	1.000160129696	
Ellipsoid Height:	3470.5234	0.017
Orthometric Height:	3535.201	0.020
Geoid Height:	-64.6775	

CONTROL MARK DATA

NAME OF MARK: 17121740 COUNTY: DESCHUTES
 MARK SET BY: PE 0632 R. B. GOULD STATE: OREGON
 DATE OF MARK: 1930+- COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 103

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

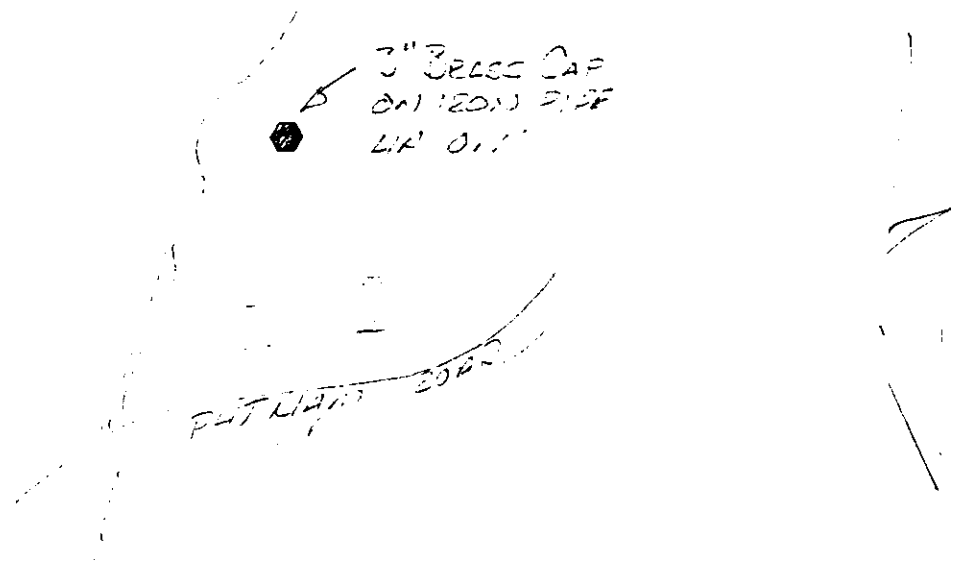
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121740</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'07.102645"	ONE SIGMA ERROR
Longitude:	121°19'25.929889"	
Northing:	401750.0638	0.014
Easting:	3289349.7693	0.013
Convergence:	-0°01'41.5581"	
Scale Factor:	1.000160129526	
Ellipsoid Height:	3451.0902	0.021
Orthometric Height:	3515.829	0.023
Geoid Height:	-64.7388	

CONTROL MARK DATA

NAME OF MARK: 17121800 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 1972 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

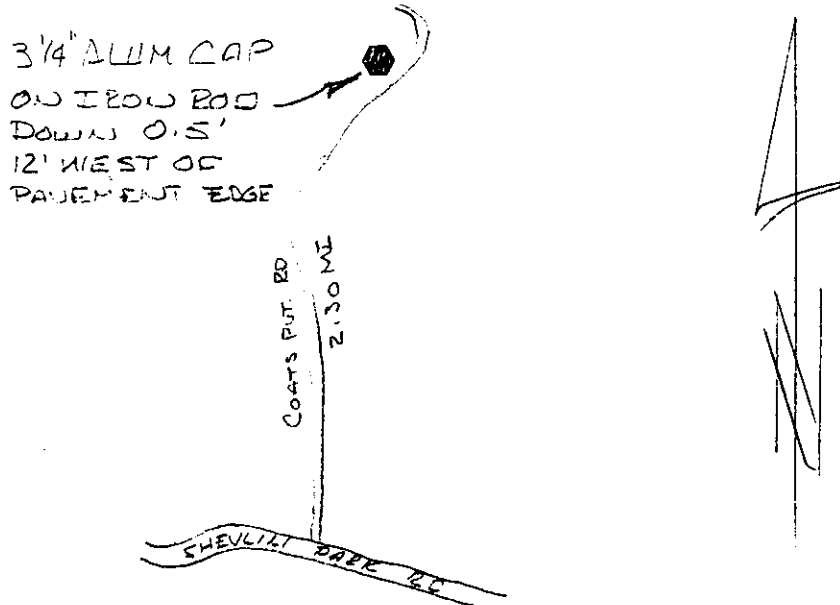
MARK: 17121800 HORIZONTAL ORDER: FIRST

Latitude:	44°05'41.599031"	ONE SIGMA ERROR
Longitude:	121°20'36.836981"	
Northing:	399170.2382	0.013
Easting:	3284172.95	0.012
Convergence:	-0°02'30.8858"	
Scale Factor:	1.000160286049	
Ellipsoid Height:	3351.5295	0.018
Orthometric Height:	3416.2083	0.021
Geoid Height:	-64.6787	

CONTROL MARK DATA

NAME OF MARK: 17121840 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 148

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

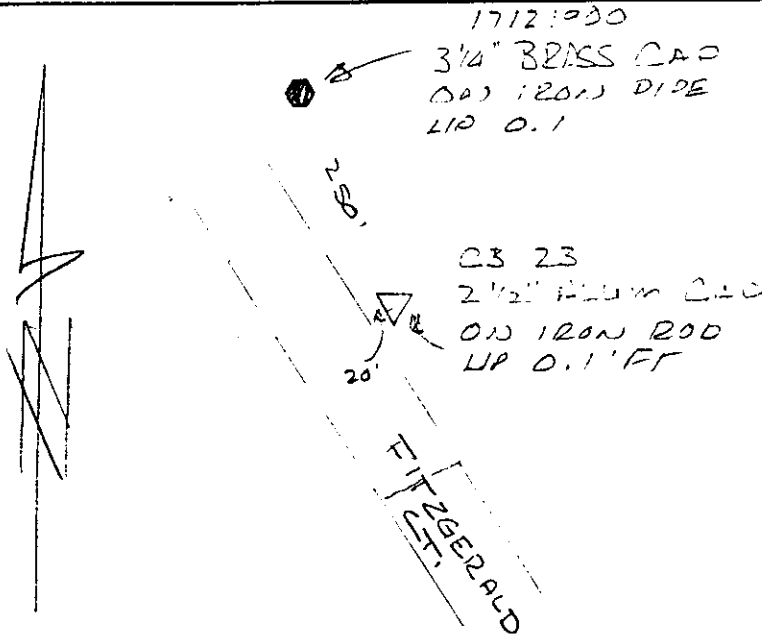
MARK: 17121840 HORIZONTAL ORDER: FIRST

Latitude:	44°06'07.559472"	ONE SIGMA ERROR
Longitude:	121°20'36.507841"	
Northing:	401799.4805	0.014
Easting:	3284198.8947	0.013
Convergence:	-0°02'30.6763"	
Scale Factor:	1.000160285111	
Ellipsoid Height:	3436.148	0.019
Orthometric Height:	3500.8924	0.022
Geoid Height:	-64.7443	

CONTROL MARK DATA

NAME OF MARK: 17121900 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 3/02/92 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1122

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

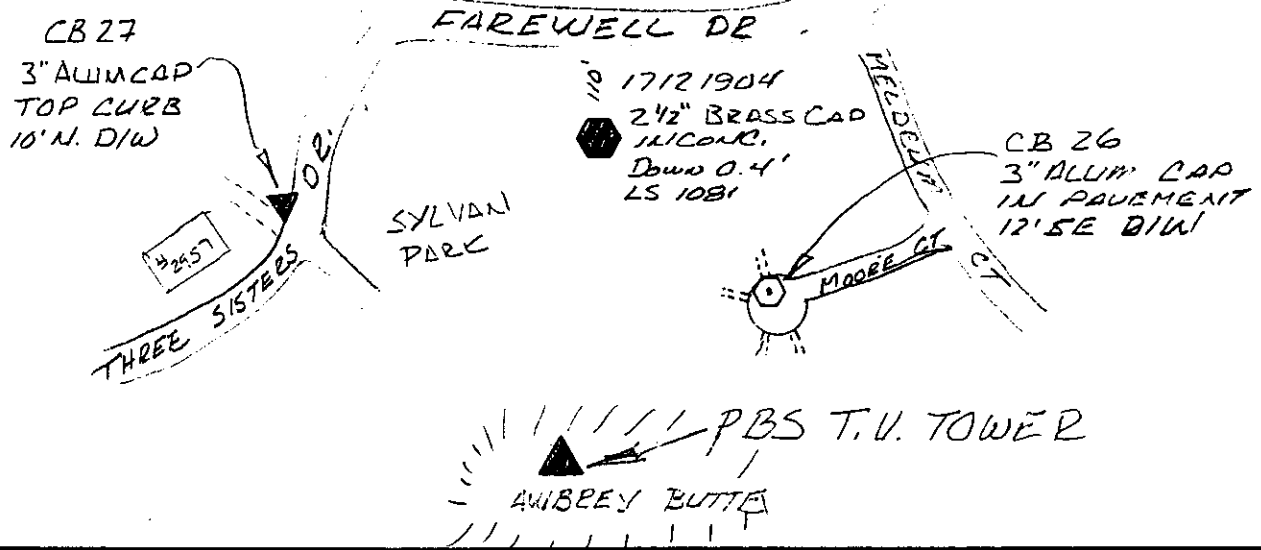
MARK: 17121900 HORIZONTAL ORDER: SECOND

Latitude:	44°04'49.607155"	ONE
Longitude:	121°20'36.088373"	SIGMA
Northing:	393904.4983	ERROR
Easting:	3284223.7532	0.027
Convergence:	-0°02'30.3257"	0.026
Scale Factor:	1.000160284216	
Ellipsoid Height:	3831.4647	0.031
Orthometric Height:	3896.0132	0.033
Geoid Height:	-64.5485	

CONTROL MARK DATA

NAME OF MARK: 17121904 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 7/9/72 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

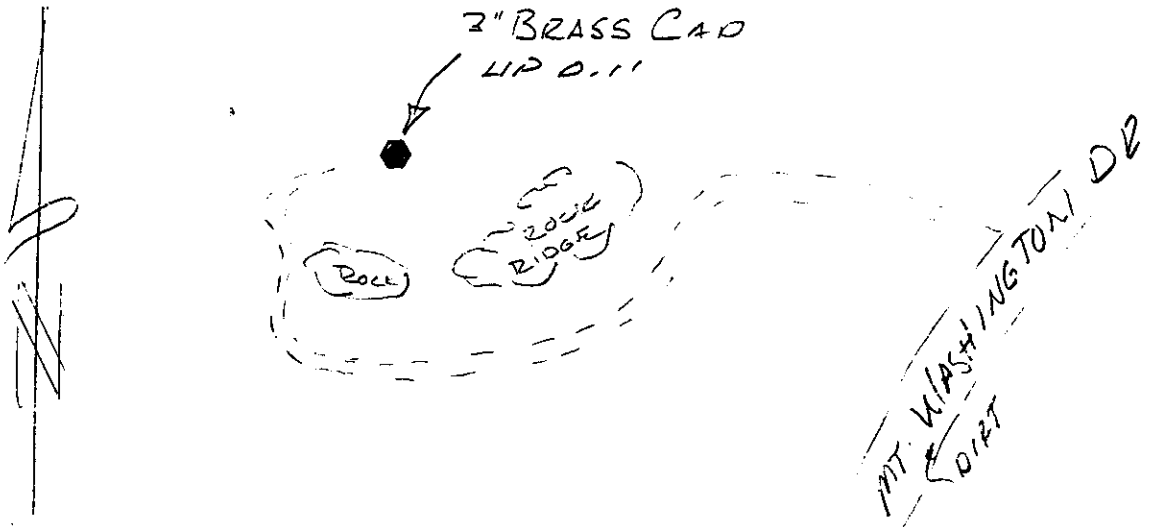
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121904</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°04'49.254450"	ONE SIGMA ERROR
Longitude:	121°20'02.350092"	
Northing:	393867.1215	0.023
Easting:	3286686.9062	0.023
Convergence:	-0°02'06.8549"	
Scale Factor:	1.000160202395	
Ellipsoid Height:	4055.2505	0.028
Orthometric Height:	4119.805	0.030
Geoid Height:	-64.5544	

CONTROL MARK DATA

NAME OF MARK: 17121940 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 9/7/72 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

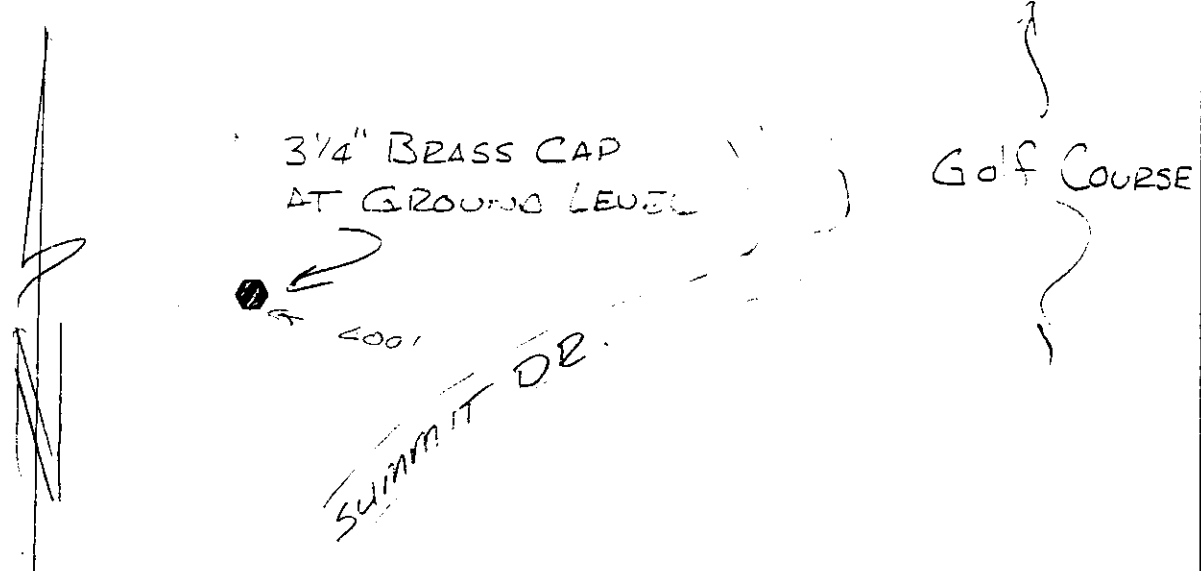
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121940</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'15.638107"	ONE SIGMA ERROR
Longitude:	121°20'36.328731"	
Northing:	396540.9056	0.015
Easting:	3284208.1287	0.013
Convergence:	-0°02'30.5125"	
Scale Factor:	1.000160284779	
Ellipsoid Height:	3691.8836	0.021
Orthometric Height:	3756.4973	0.024
Geoid Height:	-64.6137	

CONTROL MARK DATA

NAME OF MARK: 17122000 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
DATE OF MARK: 8/21/91 COUNTRY: U.S.A.
LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1087

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

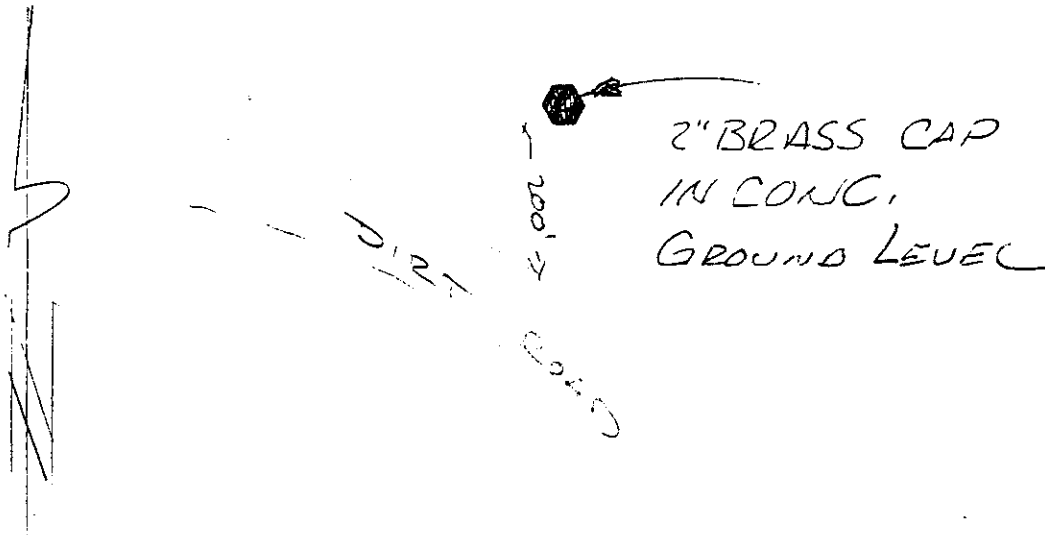
GEODITIC AND MAPPING COORDINATES

MARK: <u>17122000</u>		HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude:	44°04'49.213222"		
Longitude:	121°19'26.232453"		
Northing:	393861.4849		0.013
Easting:	3289323.7962		0.012
Convergence:	-0°01'41.7290"		
Scale Factor:	1.000160130159		
Ellipsoid Height:	3937.7953		0.020
Orthometric Height:	4002.3495		0.022
Geoid Height:	-64.5542		

CONTROL MARK DATA

NAME OF MARK: 17122040 COUNTY: DESCHUTES
MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
DATE OF MARK: 6/76 COUNTRY: U.S.A.
LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1057

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

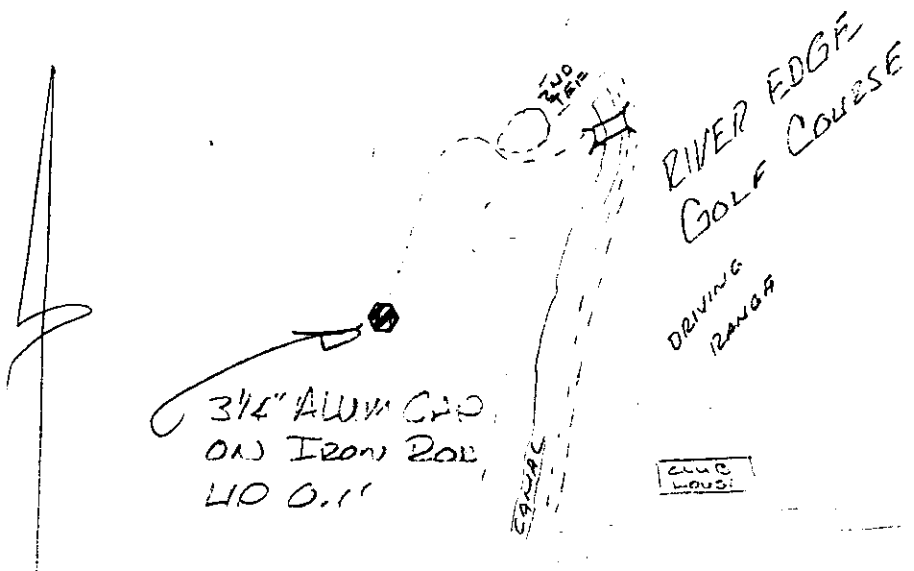
MARK: 17122040 HORIZONTAL ORDER: FIRST

Latitude:	44°05'15.227457"	ONE SIGMA ERROR
Longitude:	121°19'26.083682"	
Northing:	396496.1809	0.018
Easting:	3289335.9559	0.017
Convergence:	-0°01'41.6387"	
Scale Factor:	1.000160129863	
Ellipsoid Height:	3730.0638	0.025
Orthometric Height:	3794.6798	0.027
Geoid Height:	-64.616	

CONTROL MARK DATA

NAME OF MARK: 17122004 COUNTY: DESCHUTES
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
 DATE OF MARK: 11/14/88 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 891

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

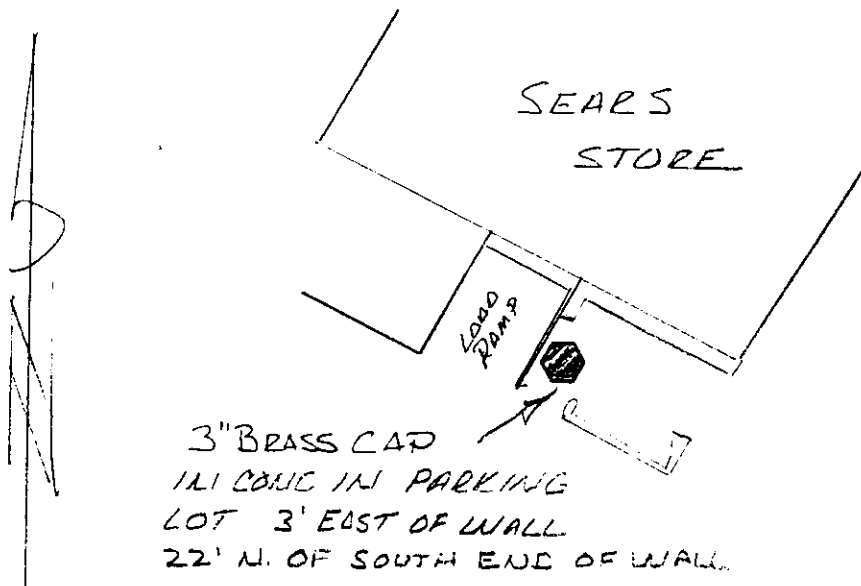
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122004</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°04'49.153121"	ONE SIGMA ERROR
Longitude:	121°18'50.268662"	
Northing:	393854.2621	0.014
Easting:	3291949.4544	0.013
Convergence:	-0°01'16.7102"	
Scale Factor:	1.000160074010	
Ellipsoid Height:	3621.5668	0.021
Orthometric Height:	3686.1204	0.022
Geoid Height:	-64.5536	

CONTROL MARK DATA

NAME OF MARK: 17122100 COUNTY: DESCHUTES
 MARK SET BY: CENTURY WEST ENG. CORP. STATE: OREGON
 DATE OF MARK: 1979/198 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

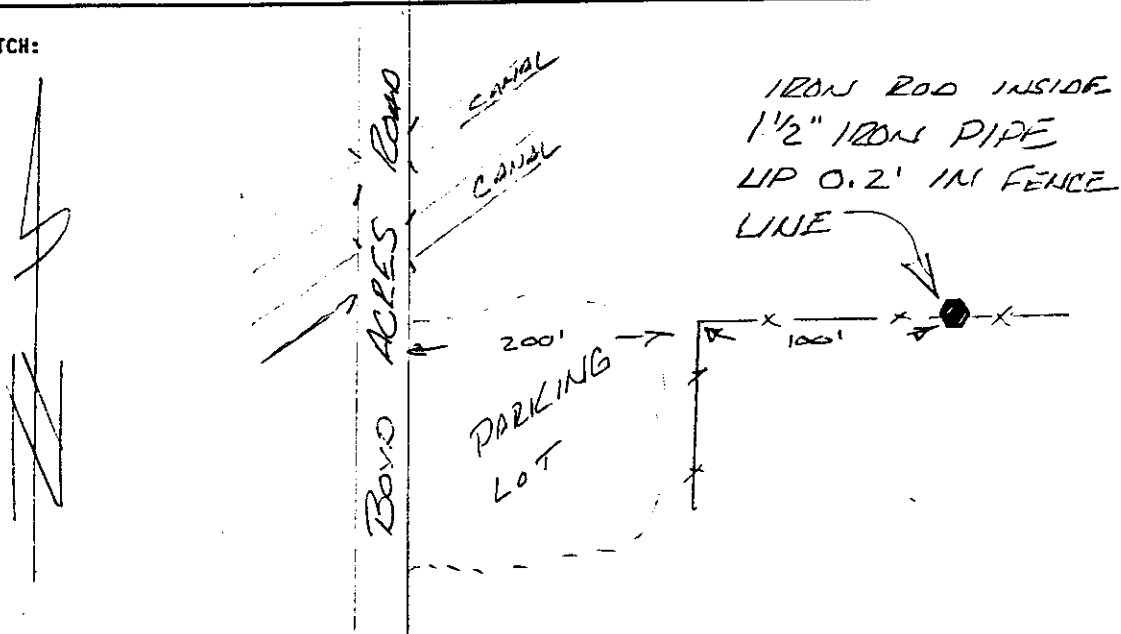
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.737167"	ONE SIGMA ERROR
Longitude:	121°18'13.889621"	
Northing:	393811.3099	0.011
Easting:	3294605.4218	0.011
Convergence:	-0°00'51.4024"	
Scale Factor:	1.000160033232	
Ellipsoid Height:	3477.8992	0.017
Orthometric Height:	3542.4477	0.017
Geoid Height:	-64.5484	

CONTROL MARK DATA

NAME OF MARK: 17122104 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

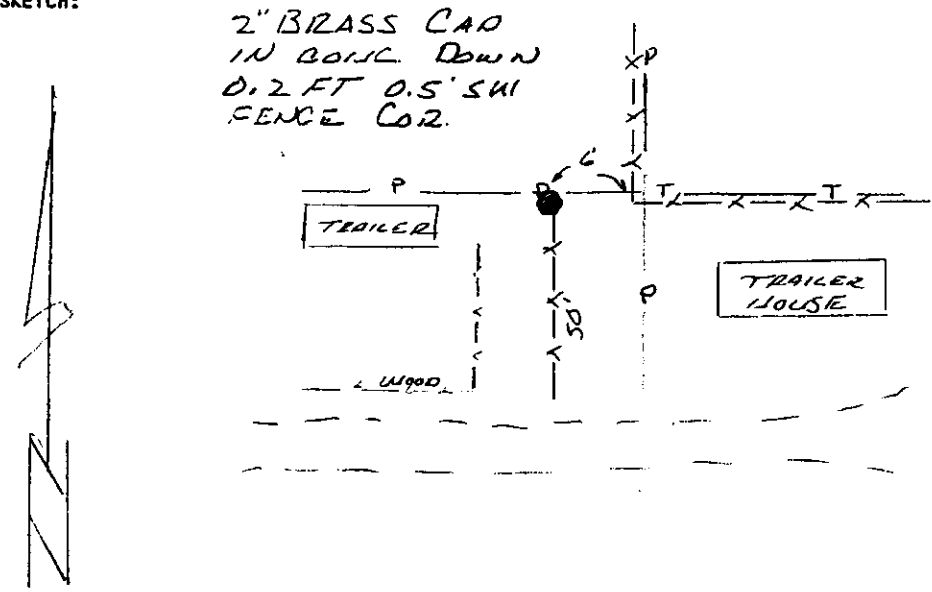
GEODITIC AND MAPPING COORDINATES

MARK: <u>17122104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.683595"	ONE SIGMA ERROR
Longitude:	121°17'37.498836"	
Northing:	393805.3851	0.014
Easting:	3297262.2616	0.013
Convergence:	-0°00'26.0866"	
Scale Factor:	1.000160008559	
Ellipsoid Height:	3499.7246	0.018
Orthometric Height:	3564.2602	0.019
Geoid Height:	-64.5356	

CONTROL MARK DATA

NAME OF MARK: 17122140 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 9/1985 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 2669

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

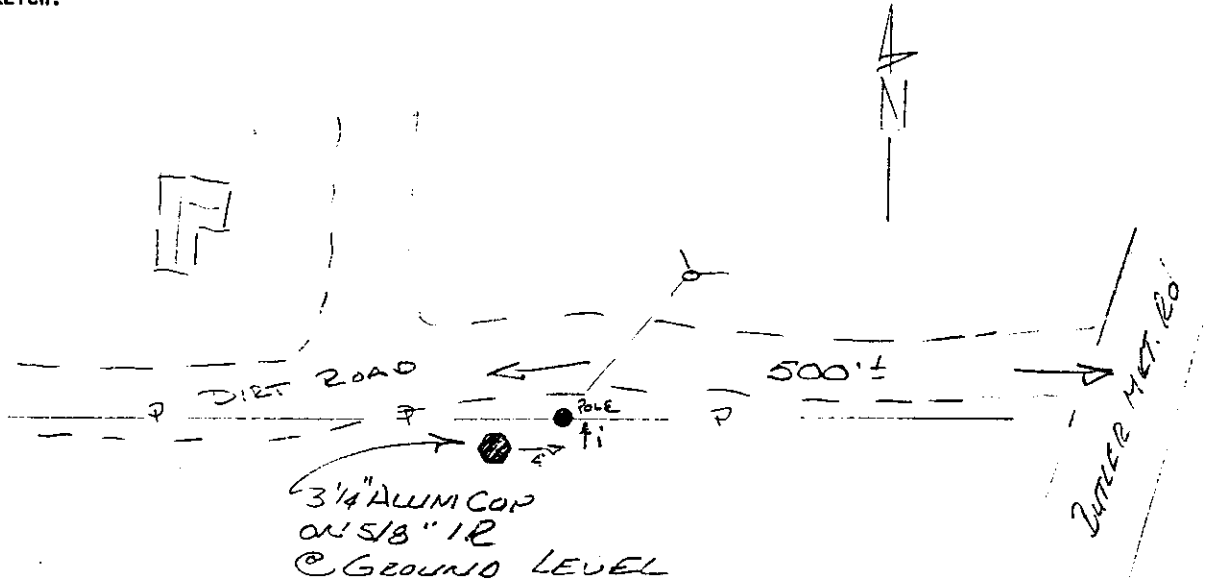
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'14.852136"	ONE SIGMA ERROR
Longitude:	121°18'13.677330"	
Northing:	396456.2096	0.012
Easting:	3294621.5781	0.012
Convergence:	-0°00'51.2614"	
Scale Factor:	1.000160033033	
Ellipsoid Height:	3481.6617	0.026
Orthometric Height:	3546.2664	0.026
Geoid Height:	-64.6047	

CONTROL MARK DATA

NAME OF MARK: 17122200 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 946

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

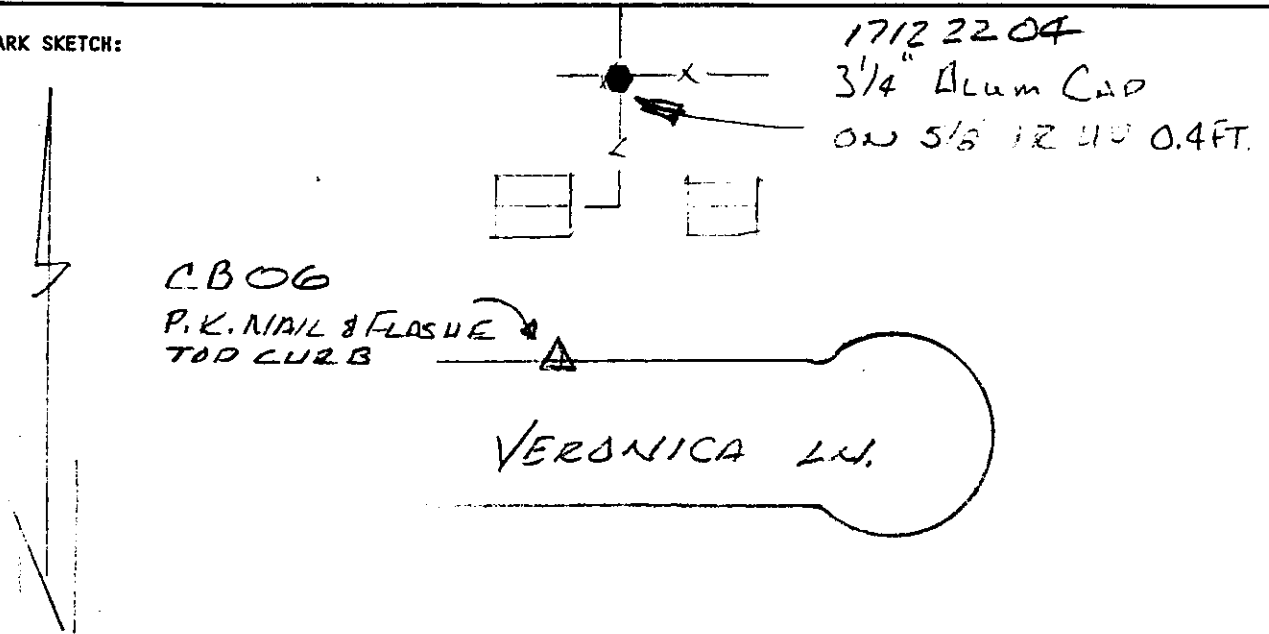
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'48.548620"</u>	ONE SIGMA ERROR
Longitude:	<u>121°17'01.275820"</u>	
Northing:	<u>393791.5421</u>	<u>0.011</u>
Easting:	<u>3299906.8541</u>	<u>0.010</u>
Convergence:	<u>-0°00'00.8875"</u>	
Scale Factor:	<u>1.000160000010</u>	
Ellipsoid Height:	<u>3463.2985</u>	<u>0.020</u>
Orthometric Height:	<u>3527.8155</u>	<u>0.033</u>
Geoid Height:	<u>-64.5171</u>	

CONTROL MARK DATA

NAME OF MARK: 17122204 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 947

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

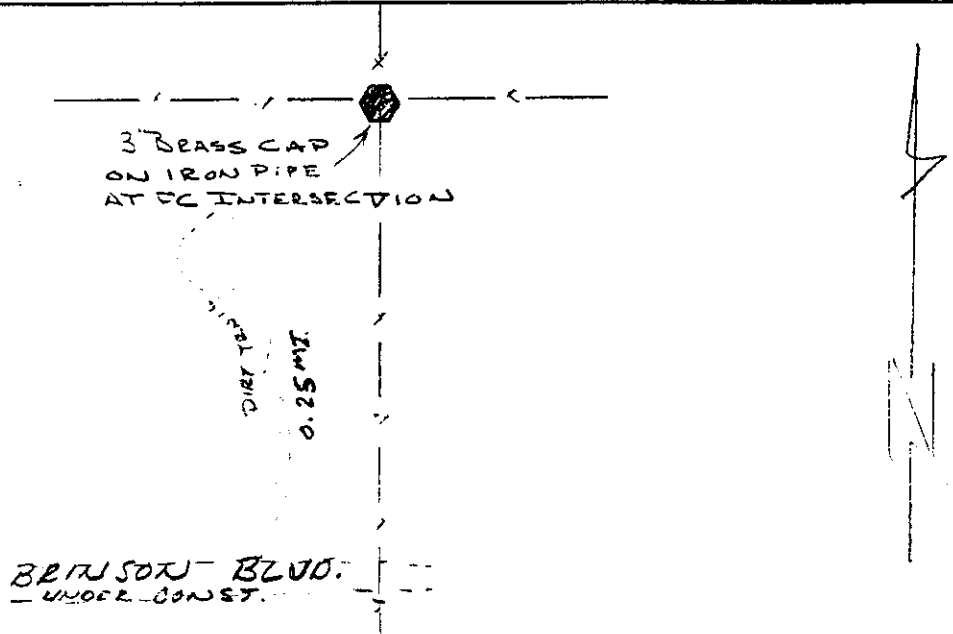
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122204</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°04'48.674416"	ONE SIGMA ERROR
Longitude:	121°16'25.426718"	
Northing:	393804.4295	0.047
Easting:	3302524.1479	0.048
Convergence:	+0°00'24.0514"	
Scale Factor:	1.000160007276	
Ellipsoid Height:	3446.9982	0.052
Orthometric Height:	3511.4873	0.052
Geoid Height:	-64.4891	

CONTROL MARK DATA

NAME OF MARK: 17122240 COUNTY: DESCHUTES
 MARK SET BY: LS 1735 WILLIAM JABS STATE: OREGON
 DATE OF MARK: 1980 +- COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 942

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

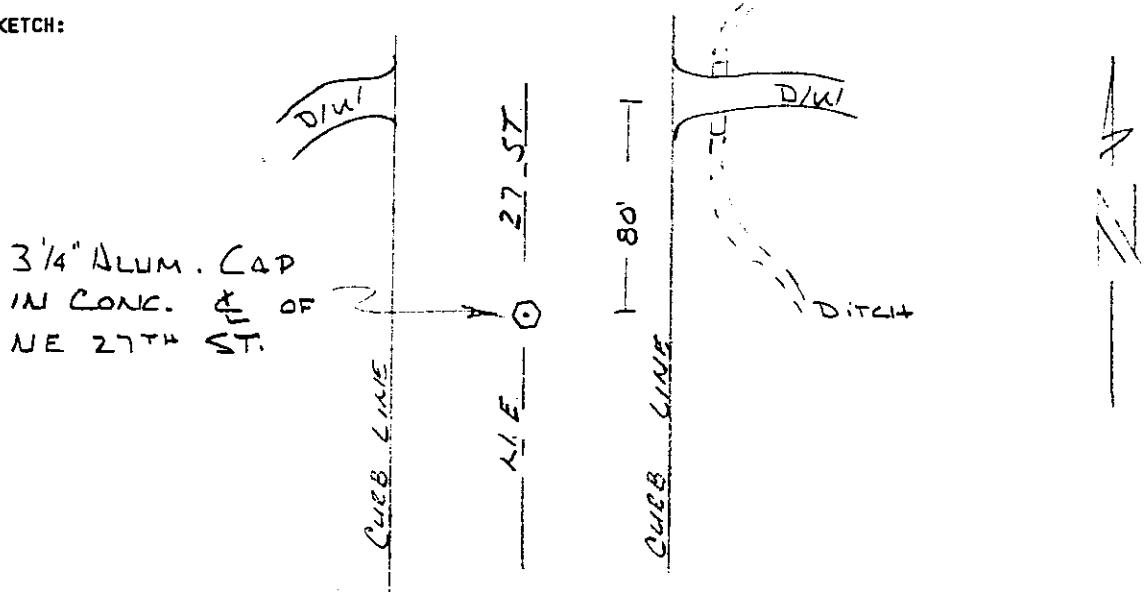
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122240</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'14.719129"	ONE SIGMA ERROR
Longitude:	121°17'01.442536"	
Northing:	396442.0707	0.017
Easting:	3299894.6953	0.015
Convergence:	-0°00'01.0037"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3454.1557	0.030
Orthometric Height:	3518.7325	0.040
Geoid Height:	-64.5769	

CONTROL MARK DATA

NAME OF MARK: 17122300 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/14/88 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 026&982

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

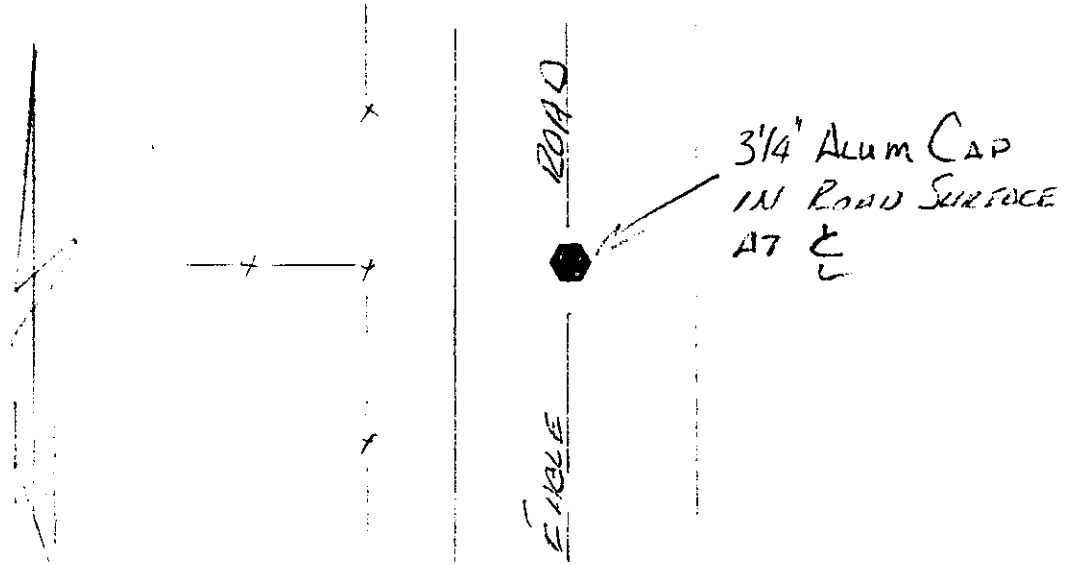
MARK: 17122300 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.873259"	ONE
Longitude:	121°15'49.556878"	SIGMA
Northing:	393825.0319	ERROR
Easting:	3305142.9509	0.013
Convergence:	+0°00'49.0048"	0.011
Scale Factor:	1.000160030204	
Ellipsoid Height:	3455.3772	0.022
Orthometric Height:	3519.8506	0.034
Geoid Height:	-64.4734	

CONTROL MARK DATA

NAME OF MARK: 17122304 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/09/88 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 940

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

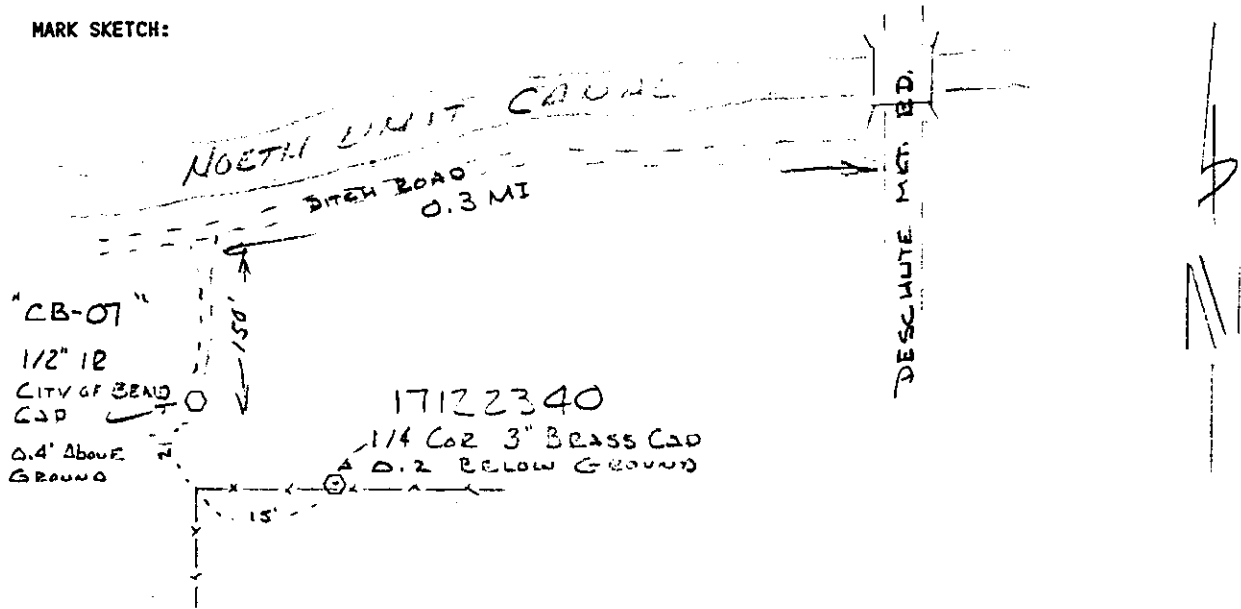
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122304</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°04'48.895194"	ONE SIGMA ERROR
Longitude:	121°15'13.246713"	
Northing:	393828.0456	0.013
Easting:	3307793.9029	0.010
Convergence:	+0°01'14.2645"	
Scale Factor:	1.000160069367	
Ellipsoid Height:	3454.7165	0.021
Orthometric Height:	3519.168	0.033
Geoid Height:	-64.4515	

CONTROL MARK DATA

NAME OF MARK: 17122340 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/19/91 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1068

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

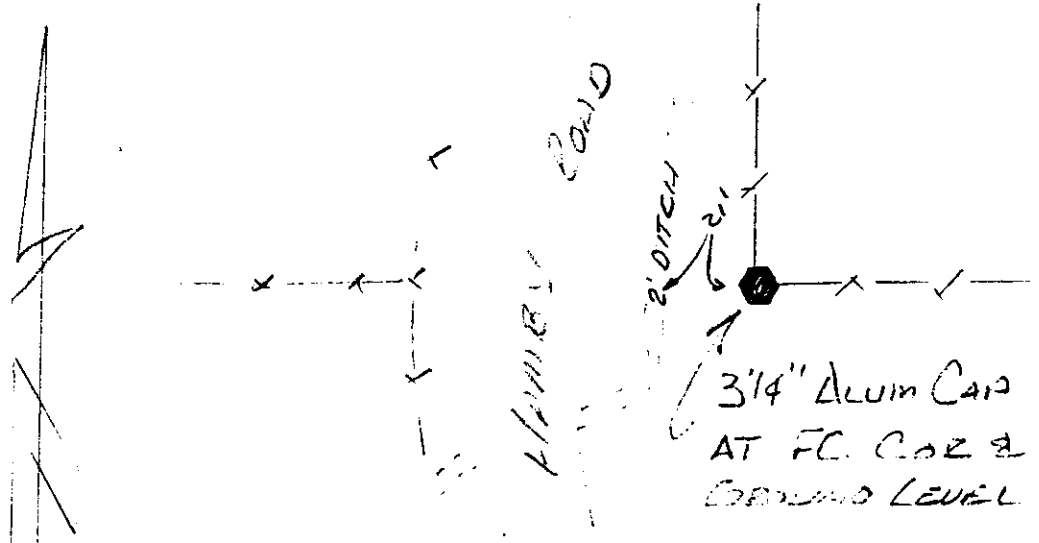
MARK: 17122340 HORIZONTAL ORDER: SECOND

Latitude:	44°05'14.922566"	ONE
Longitude:	121°15'49.560655"	SIGMA
Northing:	396463.2853	ERROR
Easting:	3305142.0483	0.034
Convergence:	+0°00'49.0086"	0.032
Scale Factor:	1.000160030193	
Ellipsoid Height:	3413.7724	0.037
Orthometric Height:	3478.3025	0.037
Geoid Height:	-64.5301	

CONTROL MARK DATA

NAME OF MARK: 17122400 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 945

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

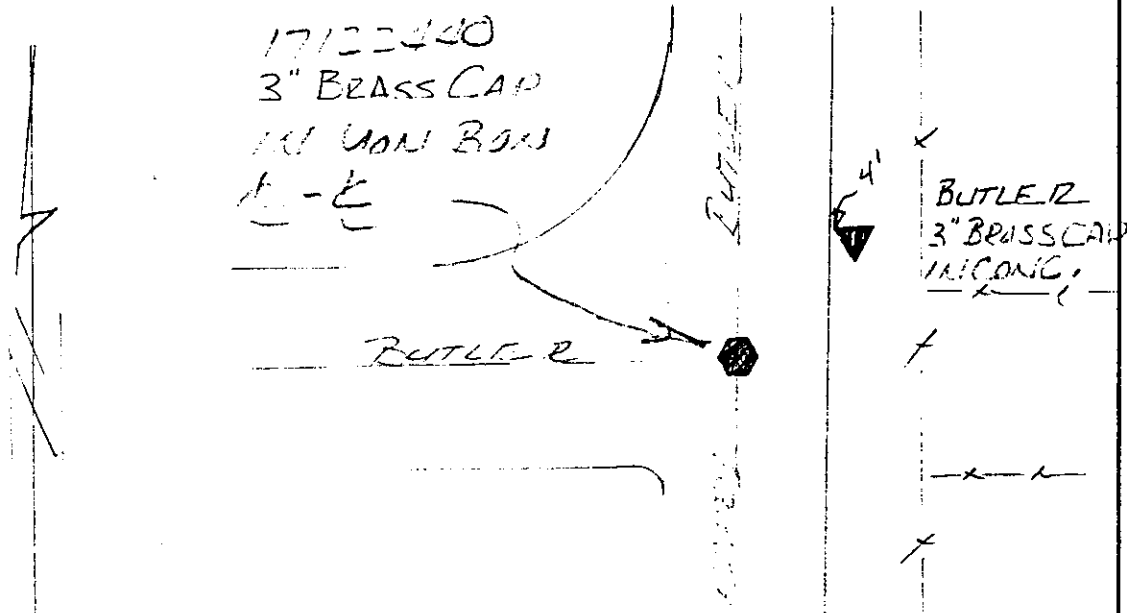
MARK: 17122400 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.921869"	ONE SIGMA ERROR
Longitude:	121°14'36.896336"	
Northing:	393831.8655	0.012
Easting:	3310447.79	0.010
Convergence:	+0°01'39.5523"	
Scale Factor:	1.000160124649	
Ellipsoid Height:	3438.0352	0.021
Orthometric Height:	3502.4649	0.032
Geoid Height:	-64.4297	

CONTROL MARK DATA

NAME OF MARK: 17122440 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1975+- COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 941

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

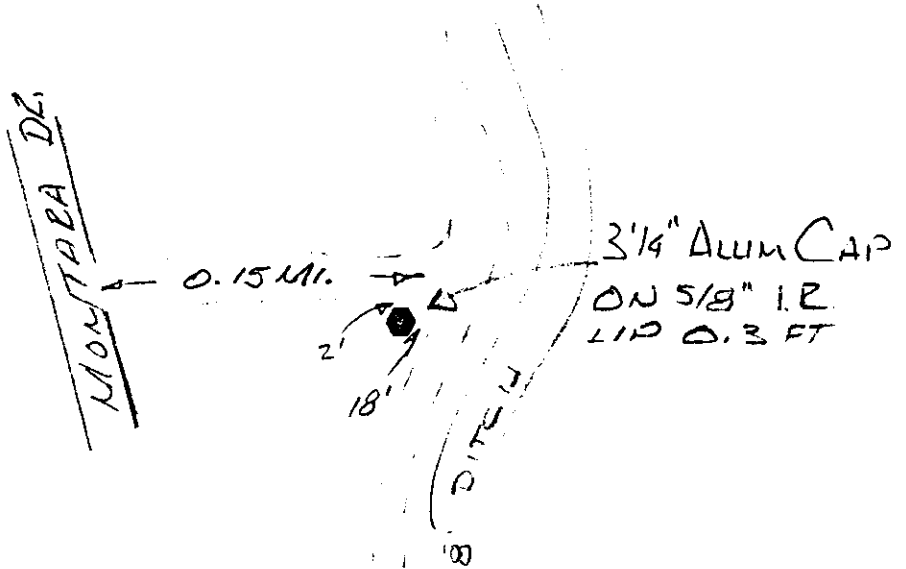
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122440</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'15.002784"	ONE SIGMA ERROR
Longitude:	121°14'36.685461"	
Northing:	396473.3275	0.039
Easting:	3310461.9089	0.029
Convergence:	+0°01'39.7120"	
Scale Factor:	1.000160124986	
Ellipsoid Height:	3410.6433	0.039
Orthometric Height:	3475.1295	0.039
Geoid Height:	-64.4861	

CONTROL MARK DATA

NAME OF MARK: 17122404 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 935

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

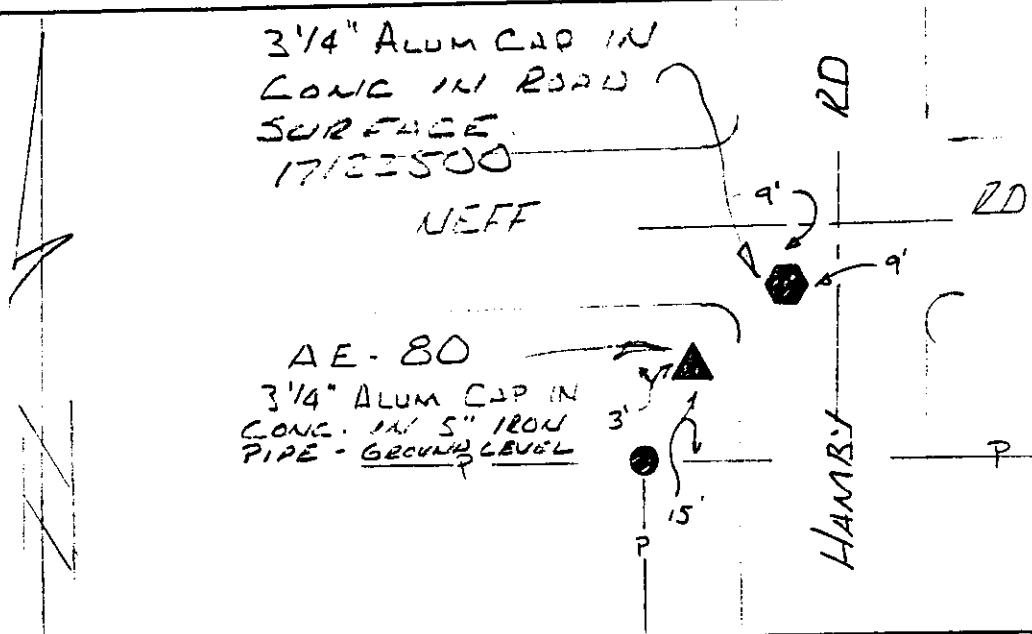
GEODITIC AND MAPPING COORDINATES

MARK: <u>17122404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'48.717173"</u>	ONE SIGMA ERROR
Longitude:	<u>121°14'00.627122"</u>	
Northing:	<u>393812.574</u>	<u>0.009</u>
Easting:	<u>3313095.7651</u>	<u>0.008</u>
Convergence:	<u>+0°02'04.7834"</u>	
Scale Factor:	<u>1.000160195841</u>	
Ellipsoid Height:	<u>3461.2096</u>	<u>0.017</u>
Orthometric Height:	<u>3525.6143</u>	<u>0.030</u>
Geoid Height:	<u>-64.4046</u>	

CONTROL MARK DATA

NAME OF MARK: 17122500 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 925

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 17122500 HORIZONTAL ORDER: SECOND

		ONE
Latitude:	44°03'56.743214"	SIGMA
Longitude:	121°14'37.127028"	ERROR
Northing:	388547.2541	0.019
Easting:	3310433.4937	0.036
Convergence:	+0°01'39.3658"	
Scale Factor:	1.000160124309	
Ellipsoid Height:	3520.8722	0.044
Orthometric Height:	3585.1956	0.044
Geoid Height:	-64.3234	

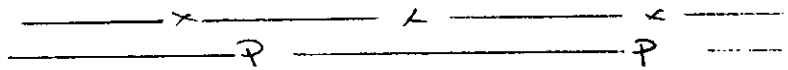
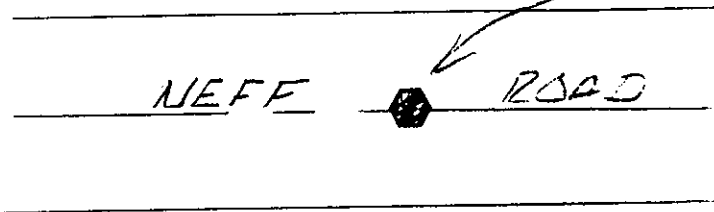
CONTROL MARK DATA

NAME OF MARK: 17122504 COUNTY: DESCHUTES
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 924

MARK SKETCH:



3/4" Alum CAP
IN CONIC. IN PAVEMENT
E OF ROAD



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

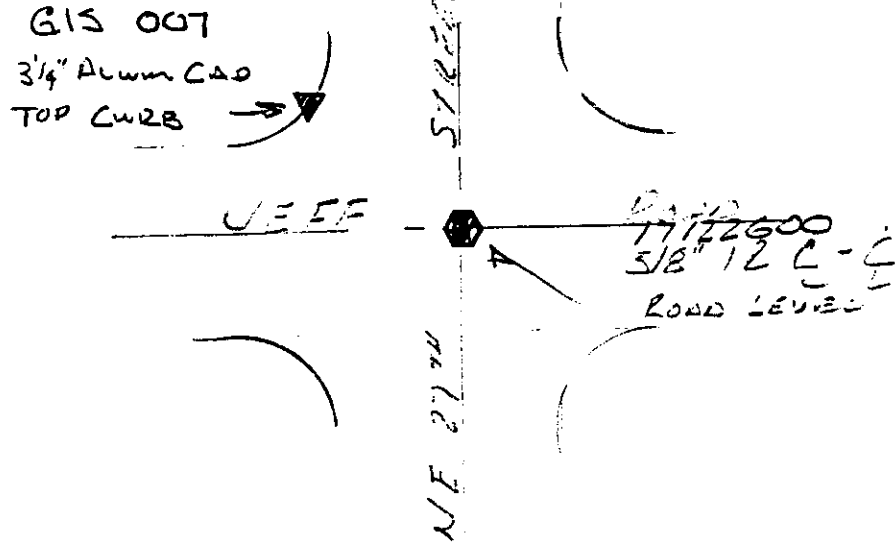
MARK: 17122504 HORIZONTAL ORDER: SECOND

Latitude:	44°03'56.601846"	ONE
Longitude:	121°14'00.711646"	SIGMA
Northing:	388534.3808	ERROR
Easting:	3313092.7853	0.028
Convergence:	+0°02'04.6920"	0.039
Scale Factor:	1.000160195752	
Ellipsoid Height:	3511.0576	0.048
Orthometric Height:	3575.3555	0.048
Geoid Height:	-64.298	

CONTROL MARK DATA

NAME OF MARK: 17122600 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1982 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 732

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

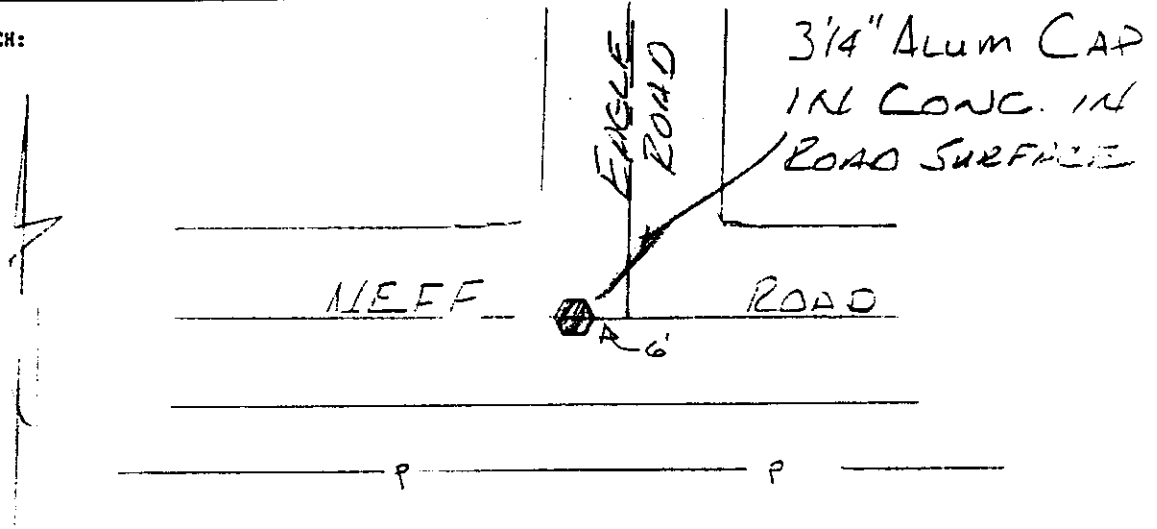
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122600</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°03'56.754748"	ONE SIGMA ERROR
Longitude:	121°15'49.498693"	
Northing:	388546.5211	0.015
Easting:	3305148.4538	0.014
Convergence:	+0°00'49.0325"	
Scale Factor:	1.000160030269	
Ellipsoid Height:	3518.2522	0.022
Orthometric Height:	3582.6124	0.022
Geoid Height:	-64.3602	

CONTROL MARK DATA

NAME OF MARK: 17122604 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 926

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

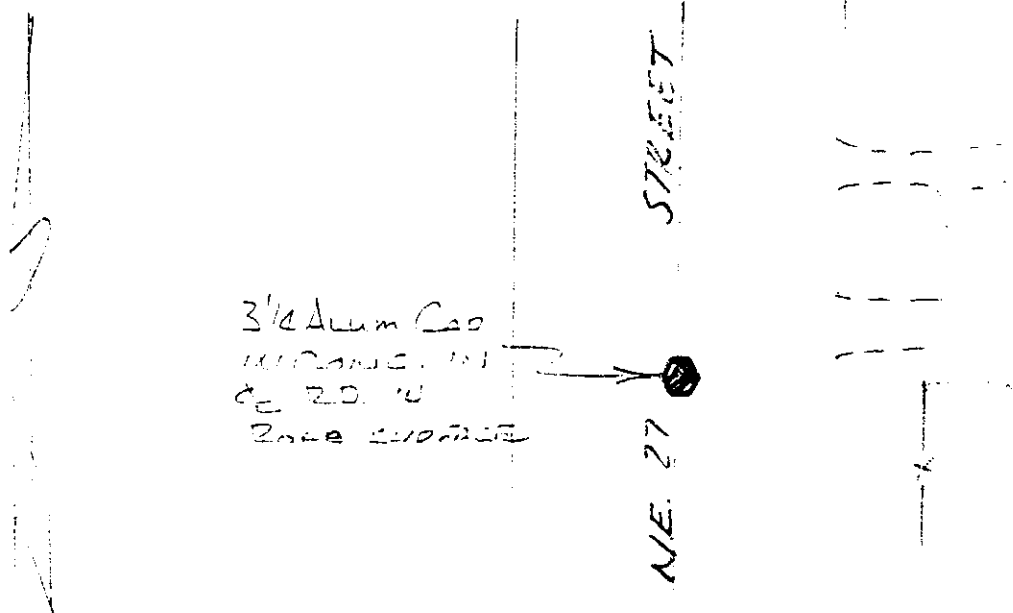
MARK: 17122604 HORIZONTAL ORDER: FIRST

Latitude:	44°03'56.743481"	ONE SIGMA ERROR
Longitude:	121°15'13.443577"	
Northing:	388546.1659	0.015
Easting:	3307781.4281	0.013
Convergence:	+0°01'14.1082"	
Scale Factor:	1.000160069145	
Ellipsoid Height:	3524.4452	0.028
Orthometric Height:	3588.787	0.038
Geoid Height:	-64.3418	

CONTROL MARK DATA

NAME OF MARK: 17122640 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 933

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HOIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

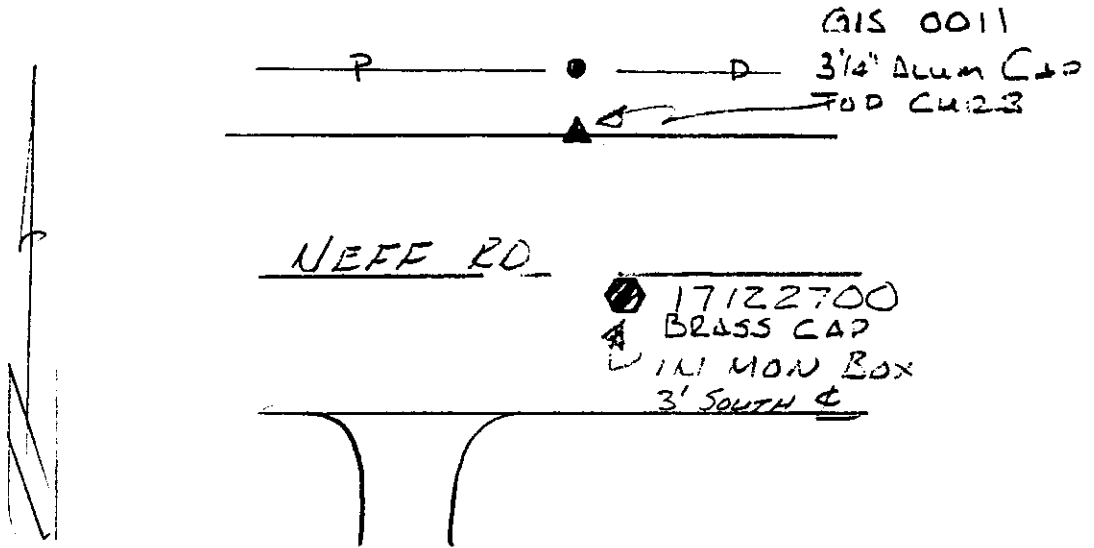
MARK: 17122640 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.775083"	ONE
Longitude:	121°15'49.518736"	SIGMA
Northing:	391181.8331	ERROR
Easting:	3305146.3638	0.016
Convergence:	+0°00'49.0250"	0.014
Scale Factor:	1.000160030244	
Ellipsoid Height:	3482.4707	0.027
Orthometric Height:	3546.8875	0.037
Geoid Height:	-64.4168	

CONTROL MARK DATA

NAME OF MARK: 17122700 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1975+- COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 734

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

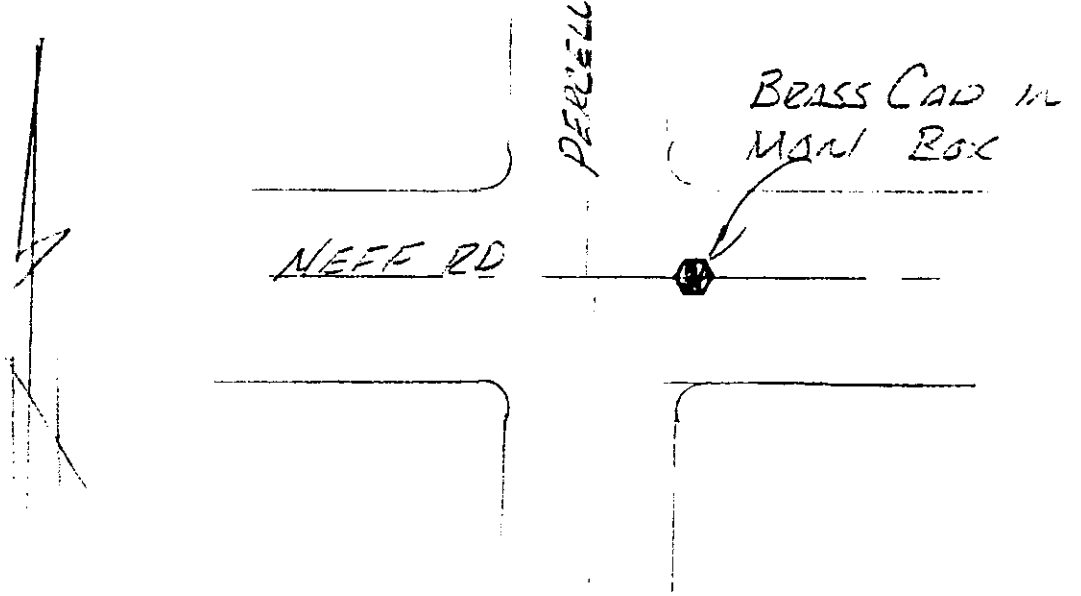
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122700</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°03'56.423836"	ONE SIGMA ERROR
Longitude:	121°17'01.534756"	
Northing:	388512.395	0.010
Easting:	3299887.9222	0.003
Convergence:	-0°00'01.0653"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3610.3859	0.007
Orthometric Height:	3674.7902	0.007
Geoid Height:	-64.4043	

CONTROL MARK DATA

NAME OF MARK: 17122704 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1975+- COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 733

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

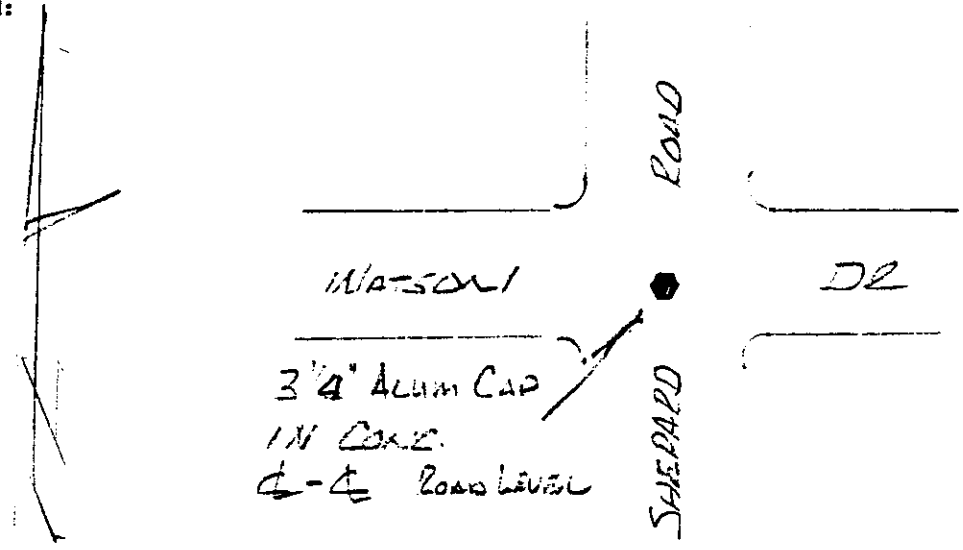
MARK: 17122704 HORIZONTAL ORDER: SECOND

Latitude:	44°03'56.611844"	ONE
Longitude:	121°16'25.535991"	SIGMA
Northing:	388531.5822	ERROR
Easting:	3302516.7828	0.013
Convergence:	+0°00'23.9691"	0.020
Scale Factor:	1.000160007233	
Ellipsoid Height:	3517.9622	0.025
Orthometric Height:	3582.3425	0.025
Geoid Height:	-64.3802	

CONTROL MARK DATA

NAME OF MARK: 17122740 COUNTY: DESCHUTES
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
DATE OF MARK: 12/15/88 COUNTRY: U.S.A.
LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 938

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDITIC AND MAPPING COORDINATES

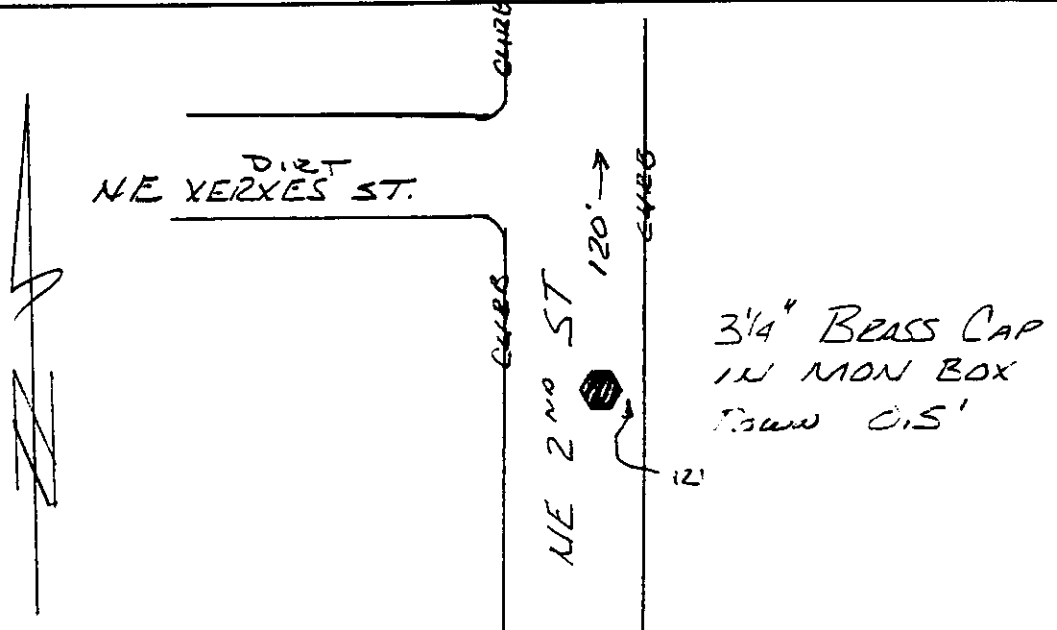
MARK: 17122740 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.437633"	ONE SIGMA ERROR
Longitude:	121°17'01.423791"	
Northing:	391147.0453	0.012
Easting:	3299896.0382	0.011
Convergence:	-0°00'00.9904"	
Scale Factor:	1.000160000012	
Ellipsoid Height:	3491.9368	0.022
Orthometric Height:	3556.3974	0.034
Geoid Height:	-64.4605	

CONTROL MARK DATA

NAME OF MARK: 17122840 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/11/91 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1086

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 17122840 HORIZONTAL ORDER: FIRST

Latitude:	44°04'23.342473"	ONE
Longitude:	121°18'14.095951"	SIGMA
Northing:	391239.3622	ERROR
Easting:	3294589.7152	0.009
Convergence:	-0°00'51.5394"	0.009
Scale Factor:	1.000160033426	
Ellipsoid Height:	3522.1286	0.012
Orthometric Height:	3586.6218	0.013
Geoid Height:	-64.4932	

CONTROL MARK DATA

NAME OF MARK: 17122800 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 3/02/92 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1117

MARK SKETCH:



3/4" BRASS CAP
 IN MON. BOX
 DOWN 0.4'

N/E 2ND STREET

PENN AVE.

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

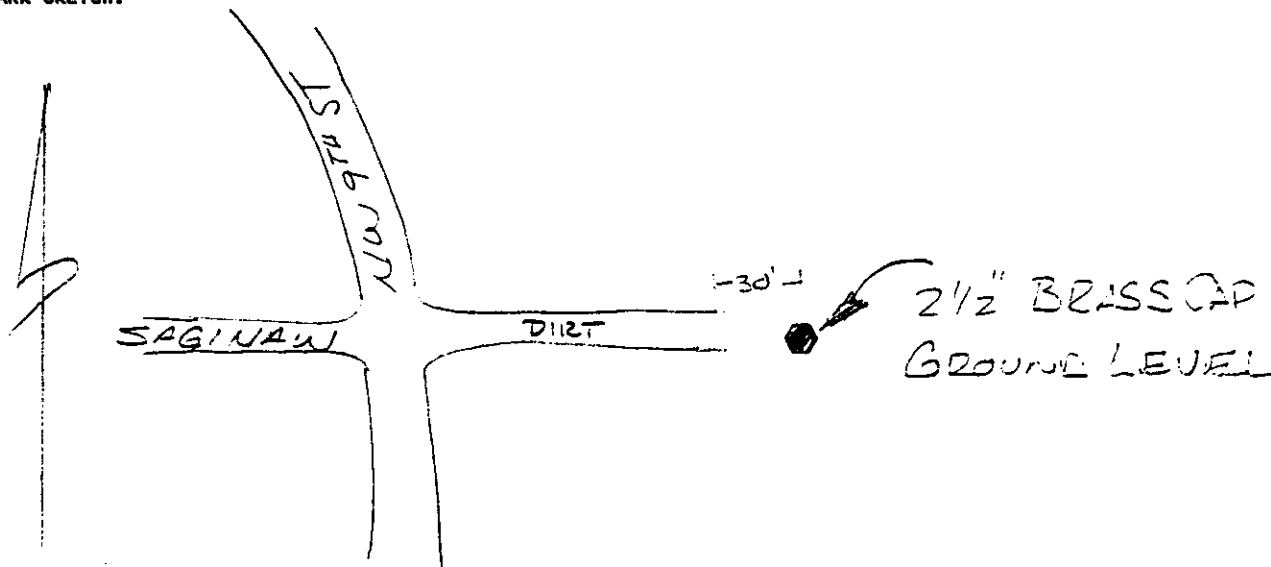
MARK: 17122800 HORIZONTAL ORDER: FIRST

Latitude:	44°03'57.294227"	ONE
Longitude:	121°18'14.428042"	SIGMA
		ERROR
Northing:	388601.229	0.010
Easting:	3294564.8047	0.010
Convergence:	-0°00'51.7636"	
Scale Factor:	1.000160033734	
Ellipsoid Height:	3542.9344	0.016
Orthometric Height:	3607.3608	0.016
Geoid Height:	-64.4264	

CONTROL MARK DATA

NAME OF MARK: 17122900 COUNTY: DESCHUTES
 MARK SET BY: LS 0706 BRUCE ROGERS STATE: OREGON
 DATE OF MARK: 7/8/1977 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 02947

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

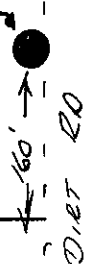
<u>MARK: 17122900</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.258947"	ONE SIGMA ERROR
Longitude:	121°19'25.933789"	
Northing:	388599.5958	0.013
Easting:	3289343.0117	0.012
Convergence:	-0°01'41.4948"	
Scale Factor:	1.000160129692	
Ellipsoid Height:	3626.7087	0.019
Orthometric Height:	3691.136	0.021
Geoid Height:	-64.4273	

CONTROL MARK DATA

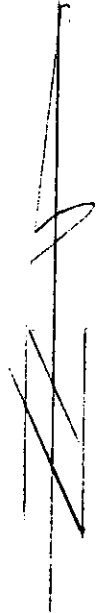
NAME OF MARK: 17122940 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 1972 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1082

MARK SKETCH:

3" BRASS CAP
AT GROUND LEVEL



HILLSIDE PARK DR.



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

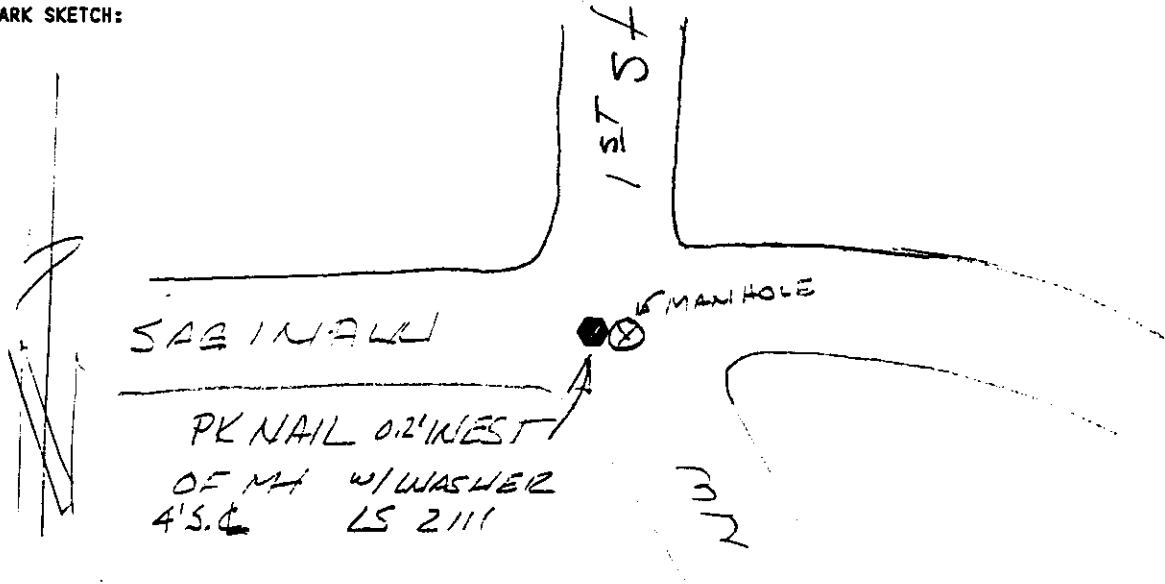
MARK: 17122940 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°04'23.171286"	
Longitude:	121°19'26.130135"	
Northing:	391223.9777	0.013
Easting:	3289329.9665	0.012
Convergence:	-0°01'41.6446"	
Scale Factor:	1.000160130009	
Ellipsoid Height:	3917.1973	0.018
Orthometric Height:	3981.6882	0.021
Geoid Height:	-64.4909	

CONTROL MARK DATA

NAME OF MARK: 17122904 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

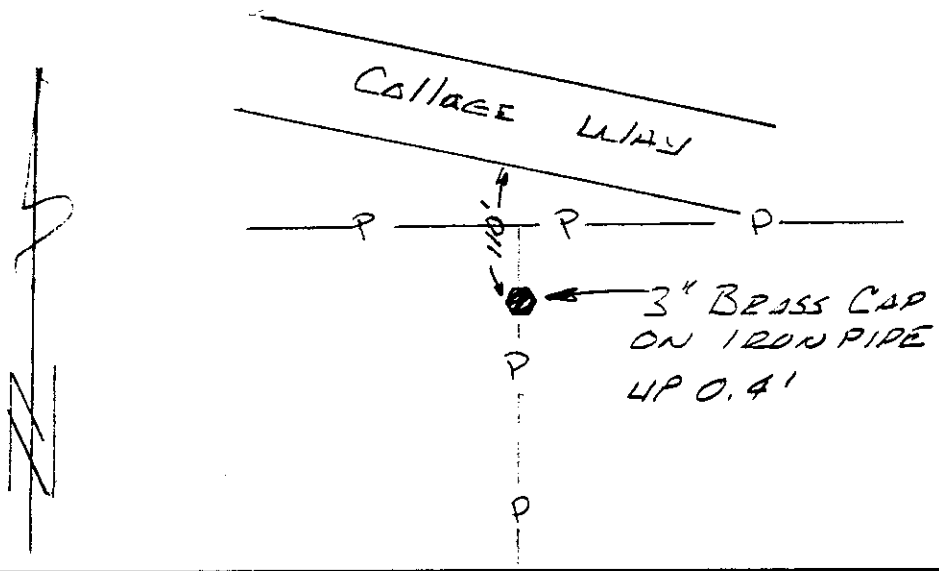
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17122904</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.303420"	ONE SIGMA ERROR
Longitude:	121°18'49.969472"	
Northing:	388602.9669	0.012
Easting:	3291969.3504	0.012
Convergence:	-0°01'16.4822"	
Scale Factor:	1.000160073645	
Ellipsoid Height:	3529.4807	0.018
Orthometric Height:	3593.9098	0.019
Geoid Height:	-64.4291	

CONTROL MARK DATA

NAME OF MARK: 17123000 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1960+ COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

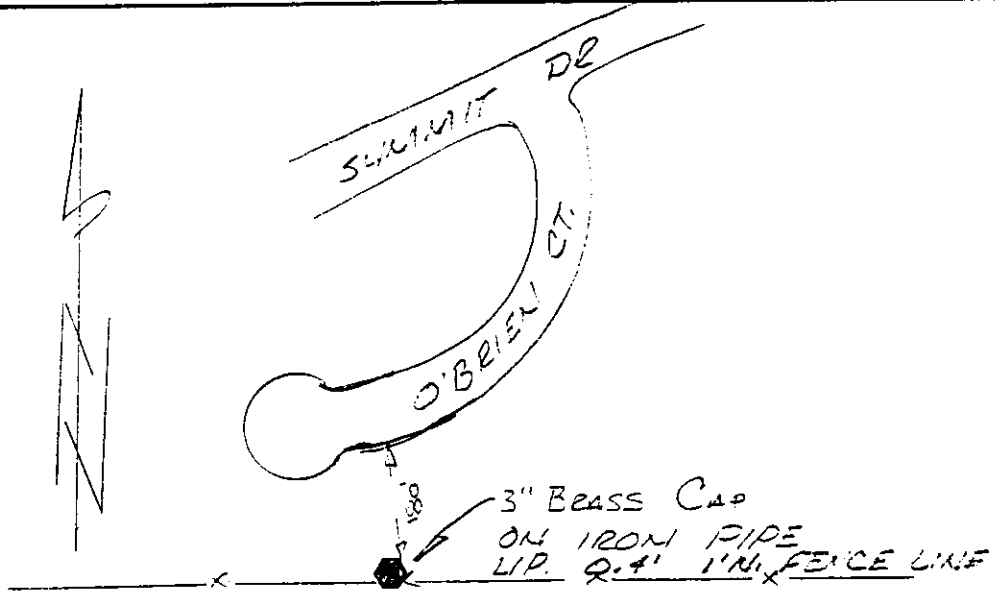
MARK: 17123000 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°03'57.485021"	
Longitude:	121°20'36.213178"	
Northing:	388625.6258	0.017
Easting:	3284210.7924	0.017
Convergence:	-0°02'30.3733"	
Scale Factor:	1.000160284684	
Ellipsoid Height:	3692.1706	0.027
Orthometric Height:	3756.5832	0.029
Geoid Height:	-64.4126	

CONTROL MARK DATA

NAME OF MARK: 17123040 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 9/07/72 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

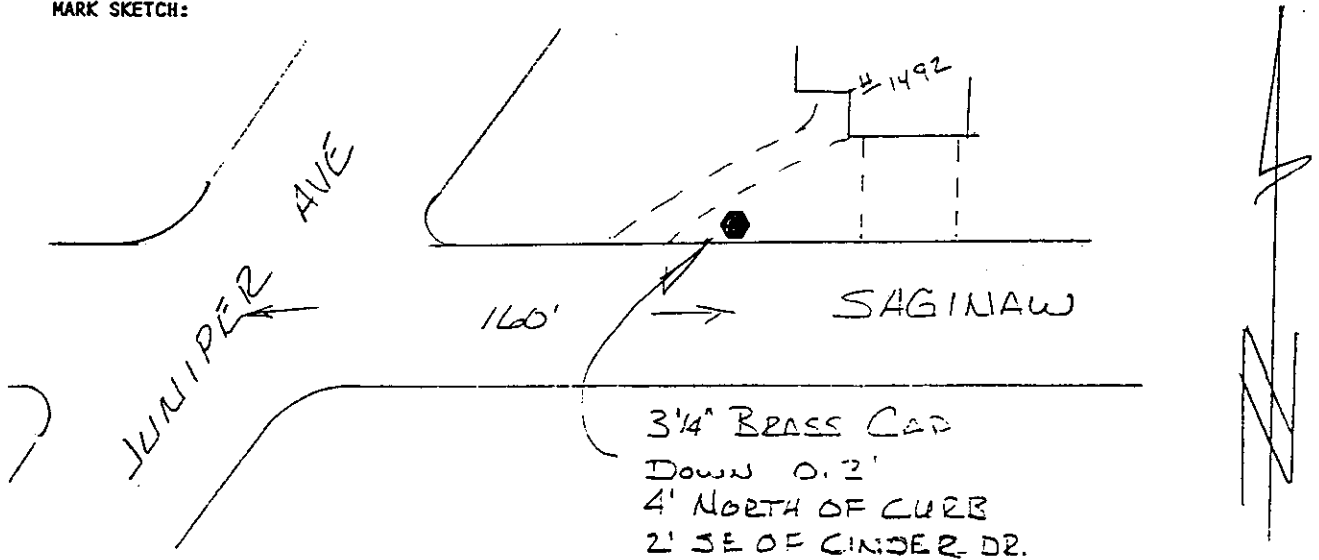
GEODITIC AND MAPPING COORDINATES

MARK: <u>17123040</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'23.547181"	ONE SIGMA ERROR
Longitude:	121°20'36.152985"	
Northing:	391265.1711	0.018
Easting:	3284217.112	0.017
Convergence:	-0°02'30.3511"	
Scale Factor:	1.000160284456	
Ellipsoid Height:	3936.7515	0.027
Orthometric Height:	4001.2295	0.030
Geoid Height:	-64.478	

CONTROL MARK DATA

NAME OF MARK: 17123004 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1211

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

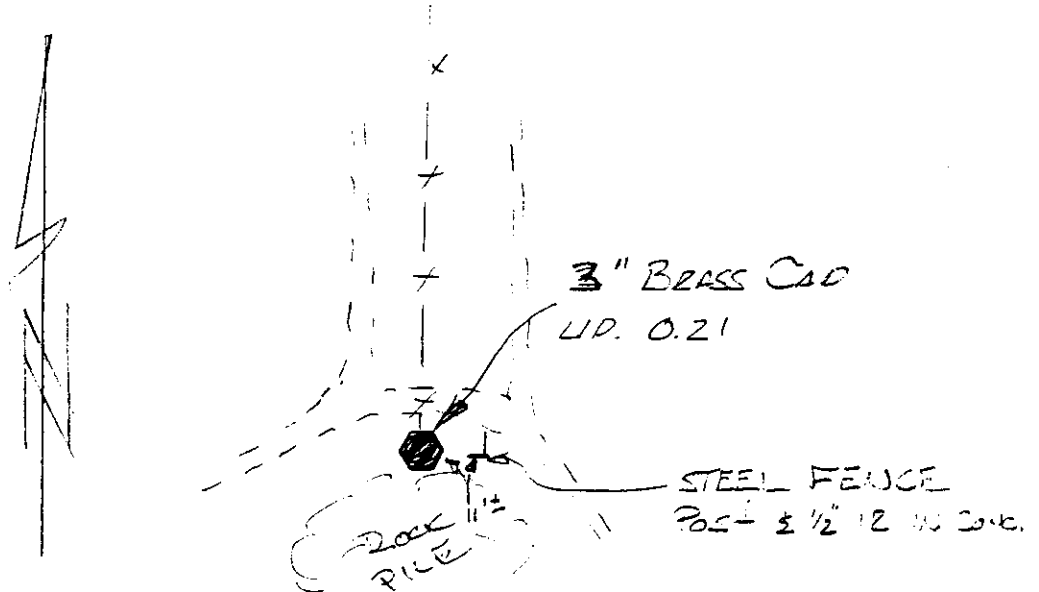
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17123004</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'57.273039"	ONE SIGMA ERROR
Longitude:	121°20'02.139168"	
Northing:	388602.4854	0.013
Easting:	3286699.0717	0.012
Convergence:	-0°02'06.6751"	
Scale Factor:	1.000160202026	
Ellipsoid Height:	3712.1184	0.021
Orthometric Height:	3776.5408	0.023
Geoid Height:	-64.4224	

CONTROL MARK DATA

NAME OF MARK: 17123100 COUNTY: DESCHUTES
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON
 DATE OF MARK: 3/10/78 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 359

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

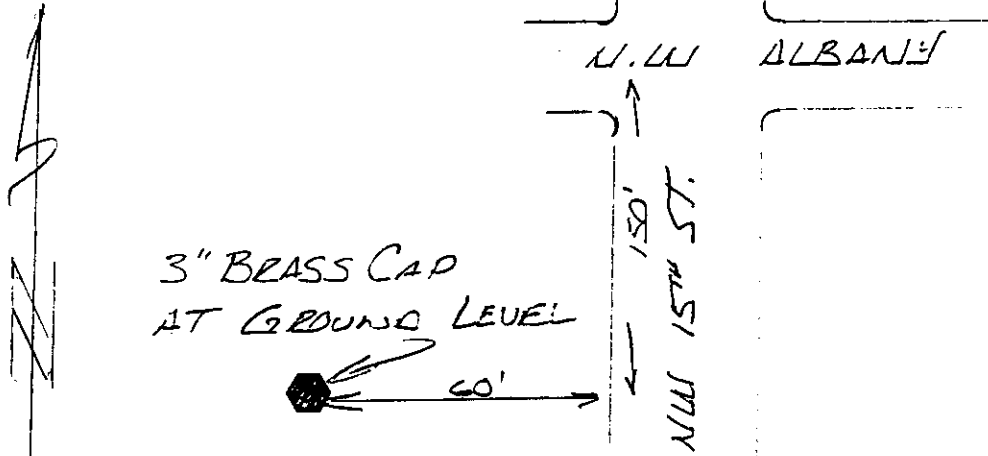
MARK: 17123100 HORIZONTAL ORDER: FIRST

Latitude:	44°03'05.488468"	ONE SIGMA ERROR
Longitude:	121°20'36.333985"	
Northing:	383359.4853	0.012
Easting:	3284198.1295	0.011
Convergence:	-0°02'30.4181"	
Scale Factor:	1.000160285142	
Ellipsoid Height:	3756.0684	0.020
Orthometric Height:	3820.3519	0.023
Geoid Height:	-64.2835	

CONTROL MARK DATA

NAME OF MARK: 17123104 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/12/91 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1081

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

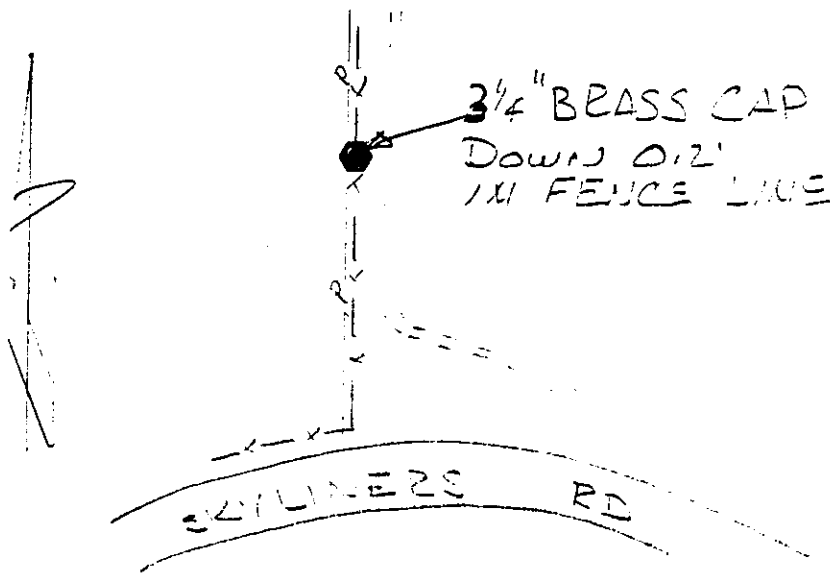
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.291730"	ONE SIGMA ERROR
Longitude:	121°20'02.058537"	
Northing:	383337.8788	0.015
Easting:	3286701.7285	0.014
Convergence:	-0°02'06.5861"	
Scale Factor:	1.000160201946	
Ellipsoid Height:	3584.9348	0.022
Orthometric Height:	3649.2292	0.024
Geoid Height:	-64.2944	

CONTROL MARK DATA

NAME OF MARK: 17123140 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/10/91 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1083

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

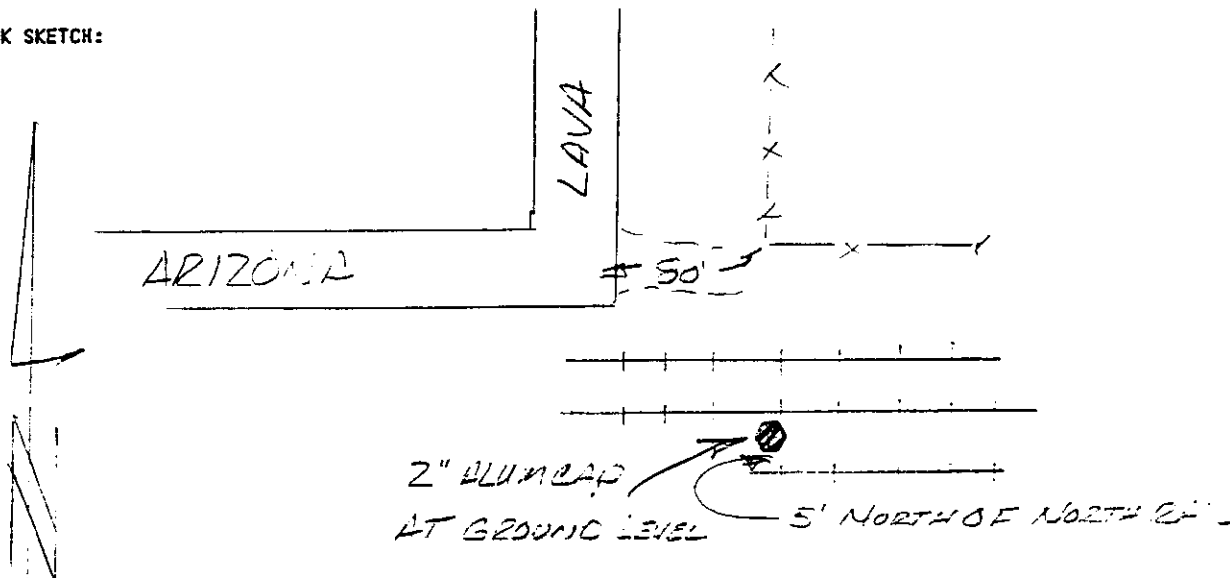
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'31.497192"	ONE SIGMA ERROR
Longitude:	121°20'36.227810"	
Northing:	385993.6095	0.015
Easting:	3284207.8051	0.014
Convergence:	-0°02'30.3639"	
Scale Factor:	1.000160284793	
Ellipsoid Height:	3609.7919	0.024
Orthometric Height:	3674.1398	0.027
Geoid Height:	-64.3479	

CONTROL MARK DATA

NAME OF MARK: 17123204 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1/12/198 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 03743

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

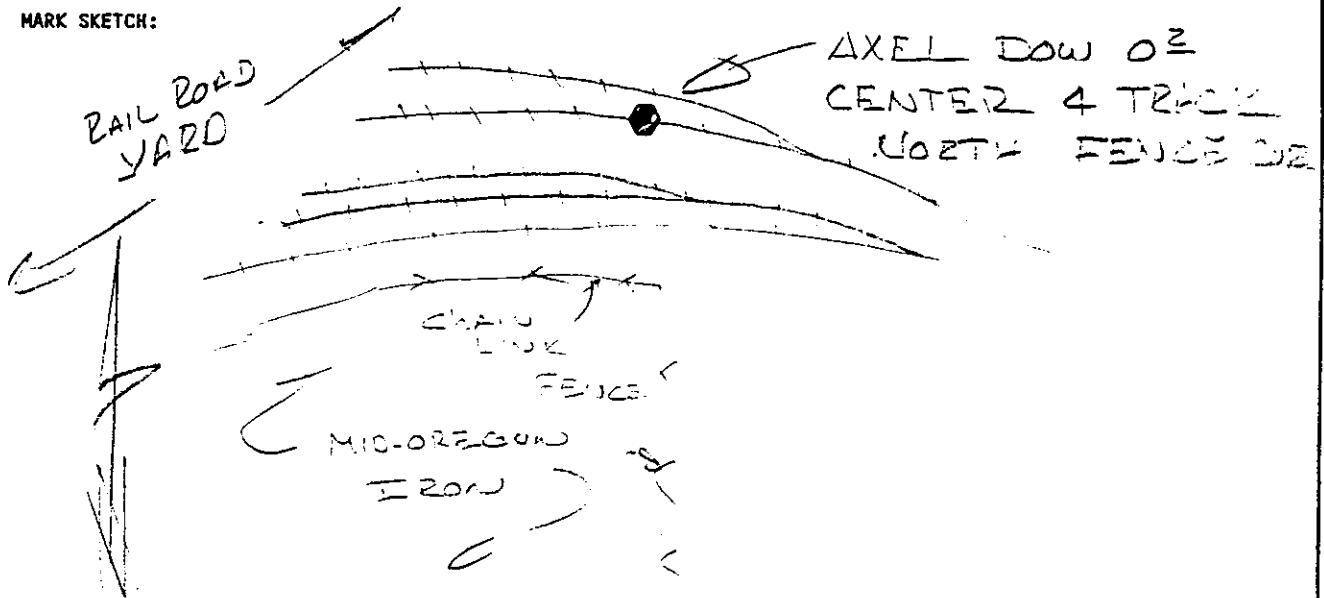
MARK: 17123204 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°03'05.133138"	
Longitude:	121°18'49.902317"	
Northing:	383319.2232	0.014
Easting:	3291972.2967	0.014
Convergence:	-0°01'16.4155"	
Scale Factor:	1.000160073591	
Ellipsoid Height:	3559.7508	0.020
Orthometric Height:	3624.0529	0.020
Geoid Height:	-64.302	

CONTROL MARK DATA

NAME OF MARK: 17123300 COUNTY: DESCHUTES
MARK SET BY: PE 0632 R. B. GOULD STATE: OREGON
DATE OF MARK: N/A COUNTRY: U.S.A.
LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

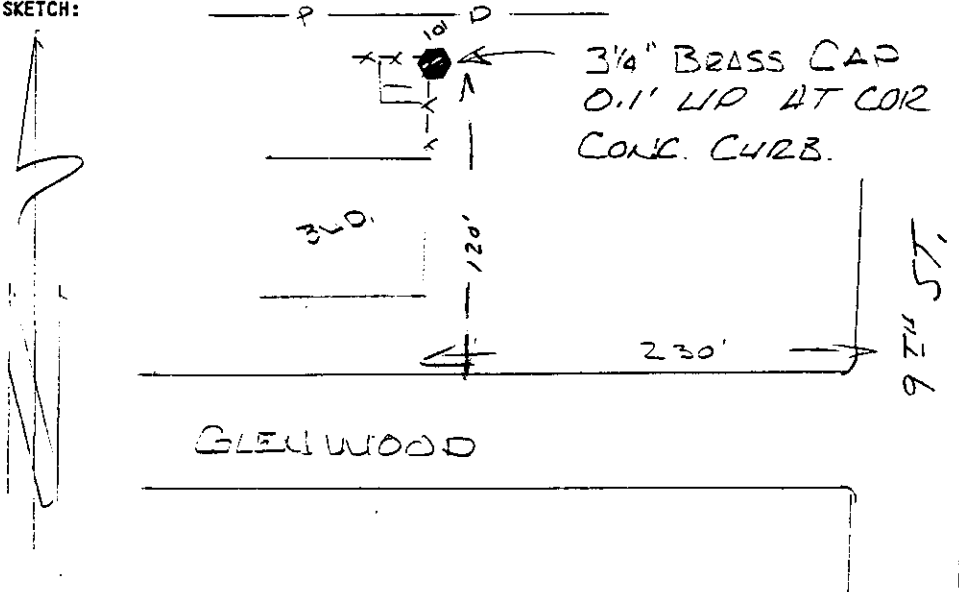
MARK: 17123300 HORIZONTAL ORDER: FIRST

Latitude:	44°03'05.063070"	ONE SIGMA ERROR
Longitude:	121°18'13.768897"	
Northing:	383311.3098	0.009
Easting:	3294611.624	0.009
Convergence:	-0°00'51.2918"	
Scale Factor:	1.000160033156	
Ellipsoid Height:	3589.7296	0.013
Orthometric Height:	3654.0304	0.014
Geoid Height:	-64.3008	

CONTROL MARK DATA

NAME OF MARK: 17123304 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/08/92 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1137

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

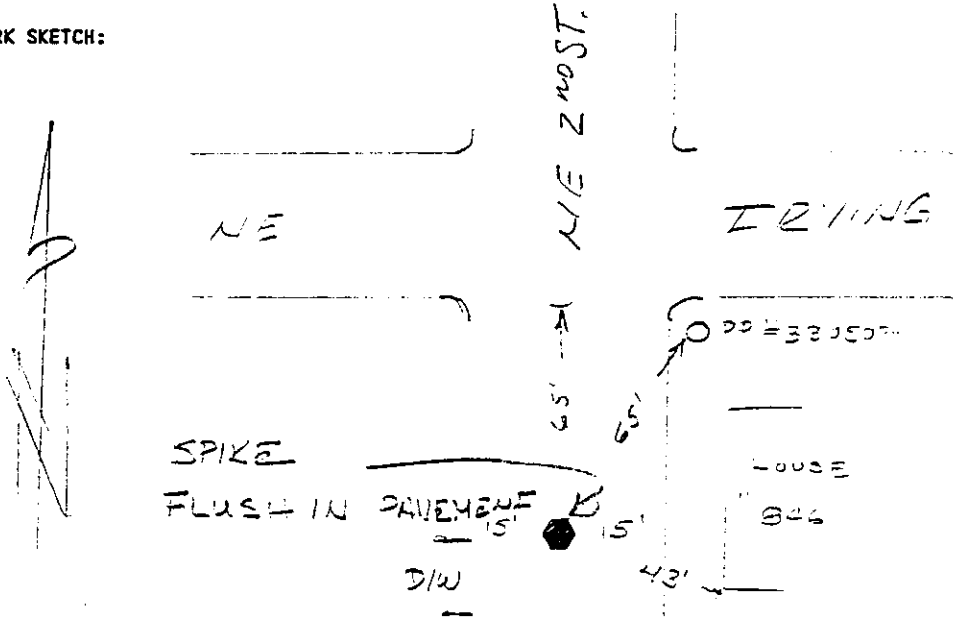
MARK: 17123304 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°03'04.882085"	
Longitude:	121°17'37.627663"	
Northing:	383292.4842	0.013
Easting:	3297251.5223	0.012
Convergence:	-0°00'26.1626"	
Scale Factor:	1.000160008626	
Ellipsoid Height:	3624.5963	0.018
Orthometric Height:	3688.8907	0.019
Geoid Height:	-64.2944	

CONTROL MARK DATA

NAME OF MARK: 17123340 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

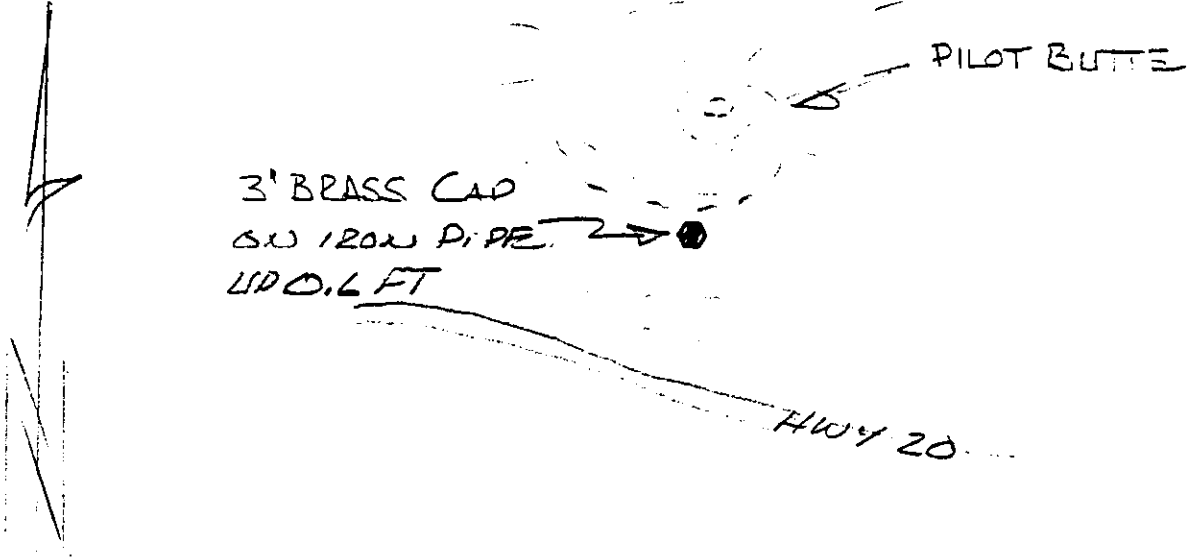
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17123340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'31.350952"	ONE SIGMA ERROR
Longitude:	121°18'14.078954"	
Northing:	385973.718	0.010
Easting:	3294589.641	0.010
Convergence:	-0°00'51.5141"	
Scale Factor:	1.000160033427	
Ellipsoid Height:	3558.5975	0.016
Orthometric Height:	3622.9623	0.017
Geoid Height:	-64.3648	

CONTROL MARK DATA

NAME OF MARK: 17123440 COUNTY: DESCHUTES
 MARK SET BY: CENTURY WEST CORP. STATE: OREGON
 DATE OF MARK: 1975+ COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 735

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

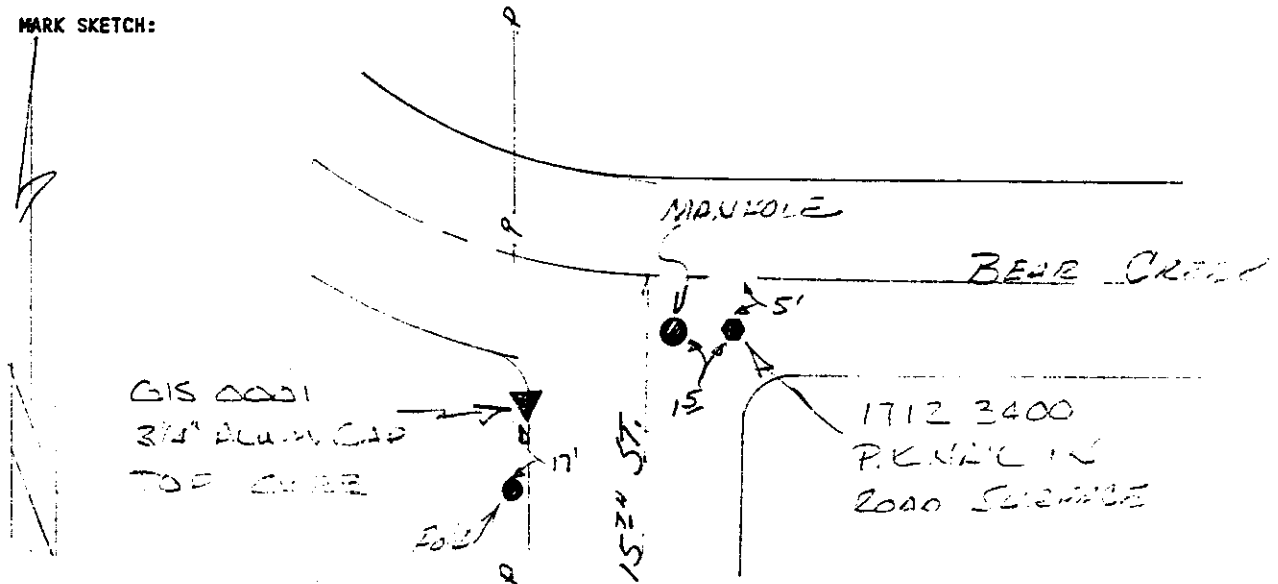
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17123440</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'30.930802"	ONE SIGMA ERROR
Longitude:	121°17'01.460548"	
Northing:	385930.4904	0.011
Easting:	3299893.3286	0.010
Convergence:	-0°00'01.0157"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3923.0177	0.020
Orthometric Height:	3987.3618	0.033
Geoid Height:	-64.3441	

CONTROL MARK DATA

NAME OF MARK: 17123400 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 8/10/87 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 737

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

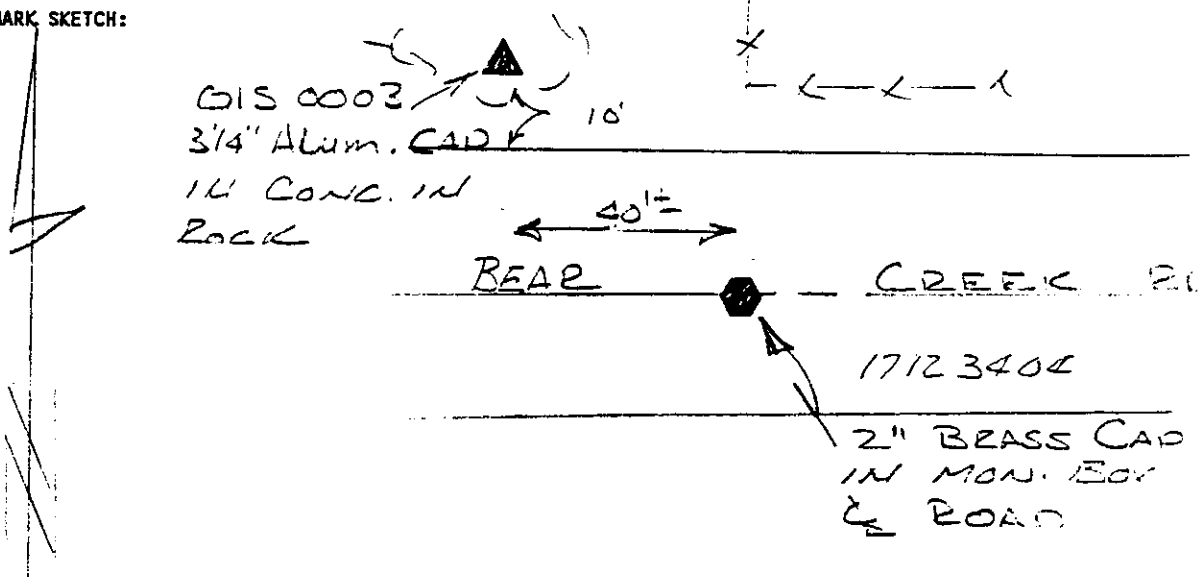
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123400</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.823275"	ONE SIGMA ERROR
Longitude:	121°17'01.465510"	
Northing:	383286.354	0.013
Easting:	3299892.9531	0.016
Convergence:	-0°00'01.0190"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3592.6757	0.017
Orthometric Height:	3657.4567	0.017
Geoid Height:	-64.781	

CONTROL MARK DATA

NAME OF MARK: 17123404 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1970+- COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 739

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

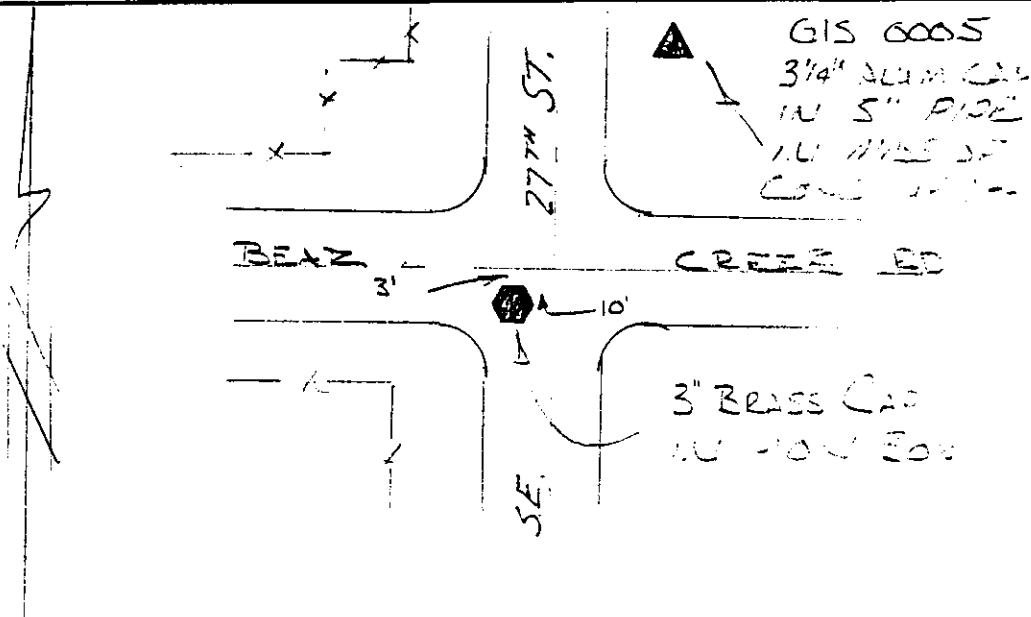
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123404</u>	HORIZONTAL ORDER: <u>SECOND</u>
Latitude:	44°03'04.844655" ONE SIGMA ERROR
Longitude:	121°16'25.208153" 0.014
Northing:	383288.668 0.023
Easting:	3302541.3386 0.019
Convergence:	+0°00'24.1909" 0.019
Scale Factor:	1.000160007375
Ellipsoid Height:	3601.7434
Orthometric Height:	3666.0028
Geoid Height:	-64.2594

CONTROL MARK DATA

NAME OF MARK: 17123500 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 12/1976 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 731

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

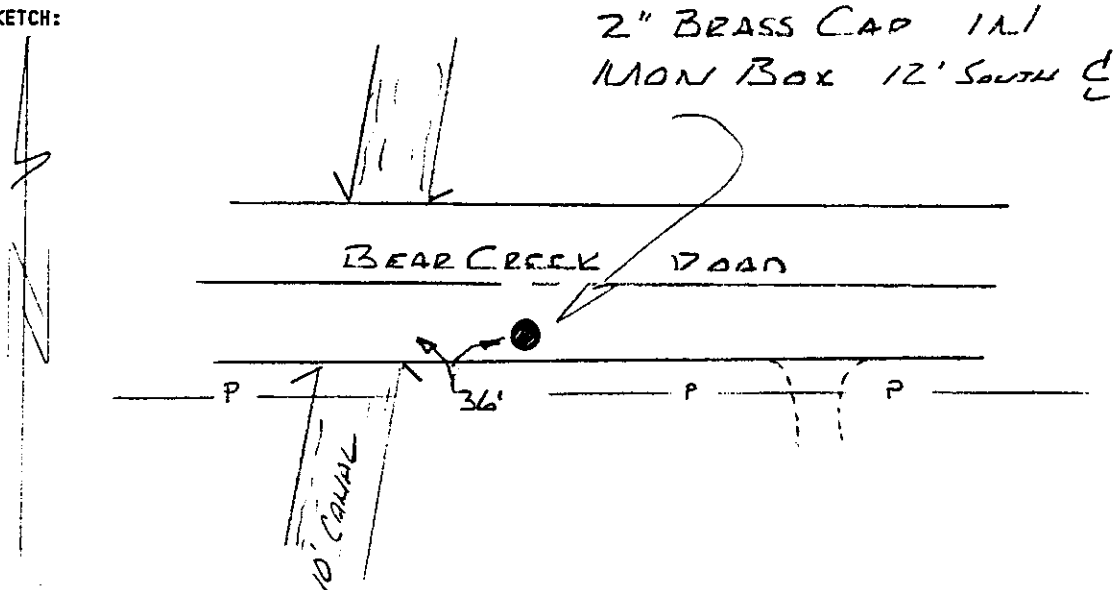
MARK: 17123500 HORIZONTAL ORDER: SECOND

Latitude:	44°03'04.956448"	ONE
Longitude:	121°15'48.929718"	SIGMA
		ERROR
Northing:	383300.4631	0.018
Easting:	3305191.261	0.011
Convergence:	+0°00'49.4154"	
Scale Factor:	1.000160030774	
Ellipsoid Height:	3589.0212	0.018
Orthometric Height:	3653.265	0.018
Geoid Height:	-64.2438	

CONTROL MARK DATA

NAME OF MARK: 17123504 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1975+- COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 961

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

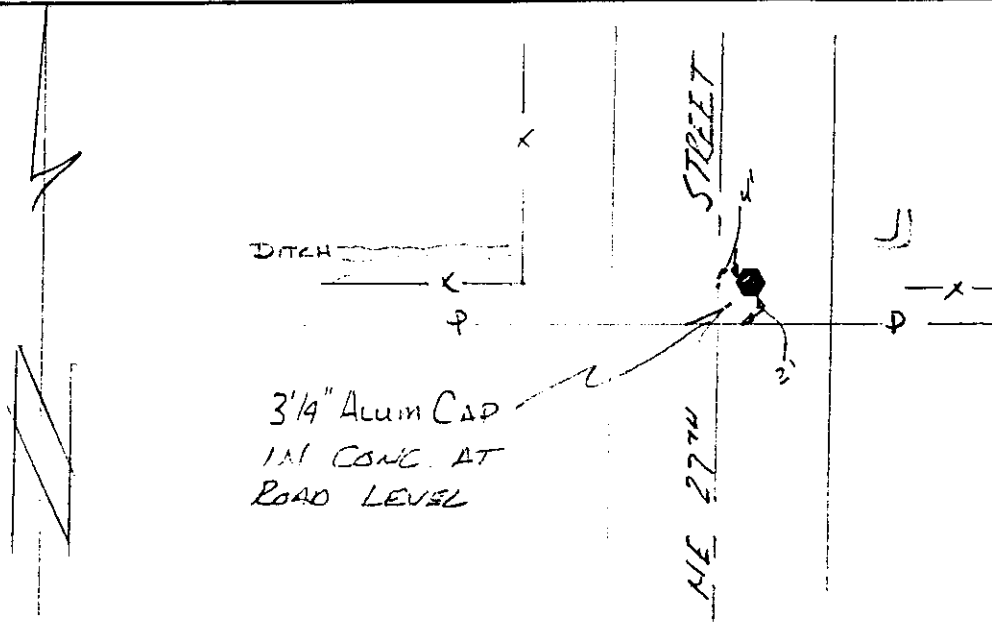
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123504</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°03'04.803464" ONE SIGMA ERROR
Longitude:	121°15'12.636731"
Northing:	383285.7664 0.013
Easting:	3307842.2532 0.010
Convergence:	+0°01'14.6500"
Scale Factor:	1.000160070231
Ellipsoid Height:	3588.6095 0.019
Orthometric Height:	3652.8348 0.032
Geoid Height:	-64.2253

CONTROL MARK DATA

NAME OF MARK: 17123540 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 4/05/88 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 738

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

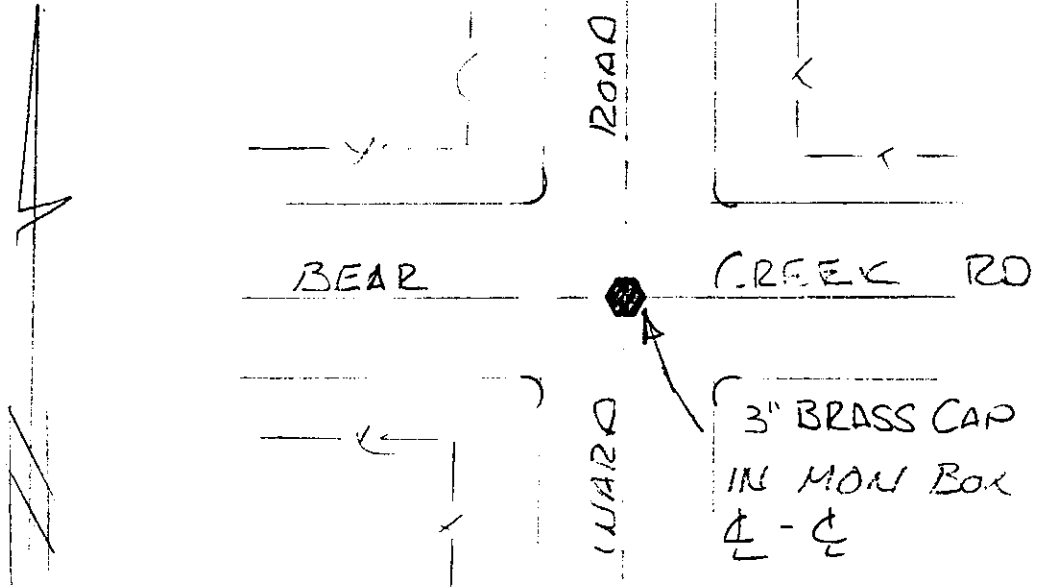
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123540</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'30.751084"	ONE SIGMA ERROR
Longitude:	121°15'49.523986"	
Northing:	385912.9	0.016
Easting:	3305147.2326	0.013
Convergence:	+0°00'49.0085"	
Scale Factor:	1.000160030255	
Ellipsoid Height:	3546.8667	0.023
Orthometric Height:	3611.1706	0.023
Geoid Height:	-64.3039	

CONTROL MARK DATA

NAME OF MARK: 17123600 COUNTY: DESCHUTES
 MARK SET BY: LS 2140 THOMAS BLUST STATE: OREGON
 DATE OF MARK: 8/08/91 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1070

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

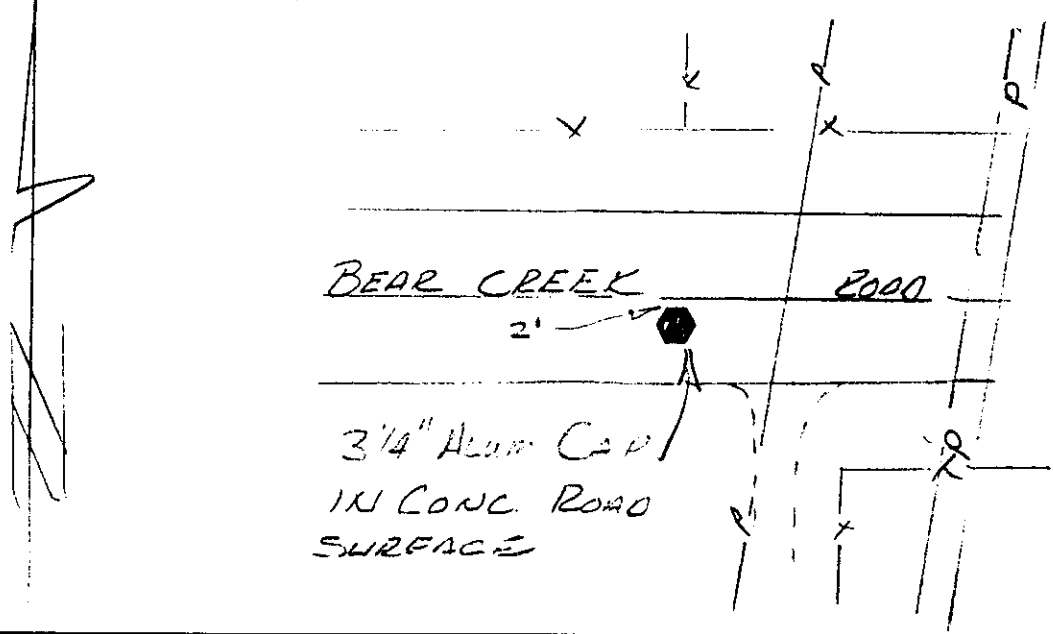
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17123600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°03'04.661235"</u>	ONE SIGMA ERROR
Longitude:	<u>121°14'36.379111"</u>	
Northing:	<u>383272.482</u>	<u>0.014</u>
Easting:	<u>3310490.6654</u>	<u>0.010</u>
Convergence:	<u>+0°01'39.8599"</u>	
Scale Factor:	<u>1.000160125675</u>	
Ellipsoid Height:	<u>3556.5736</u>	<u>0.020</u>
Orthometric Height:	<u>3620.7837</u>	<u>0.032</u>
Geoid Height:	<u>-64.2101</u>	

CONTROL MARK DATA

NAME OF MARK: 17123604 COUNTY: DESCHUTES
 MARK SET BY: J.S. 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: QCRR 919

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

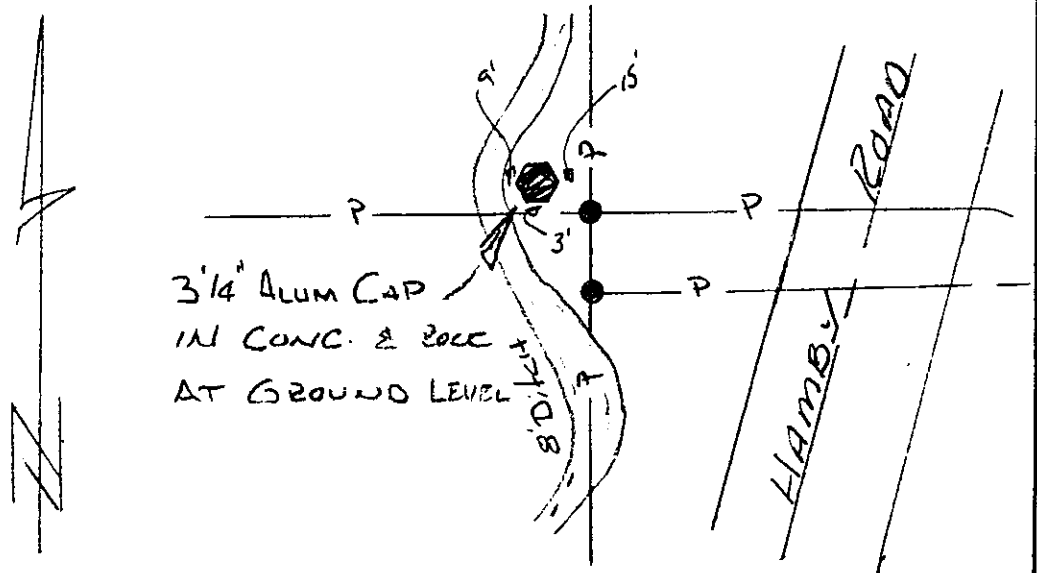
MARK: 17123604 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.431192"	ONE
Longitude:	121°14'00.494161"	SIGMA
Northing:	383250.6111	ERROR
Easting:	3313111.8651	0.015
Convergence:	+0°02'04.8107"	0.011
Scale Factor:	1.000160196324	
Ellipsoid Height:	3564.7298	0.021
Orthometric Height:	3628.9214	0.033
Geoid Height:	-64.1916	

CONTROL MARK DATA

NAME OF MARK: 17123640 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/09/88 COUNTRY: U.S.A.
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 962

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

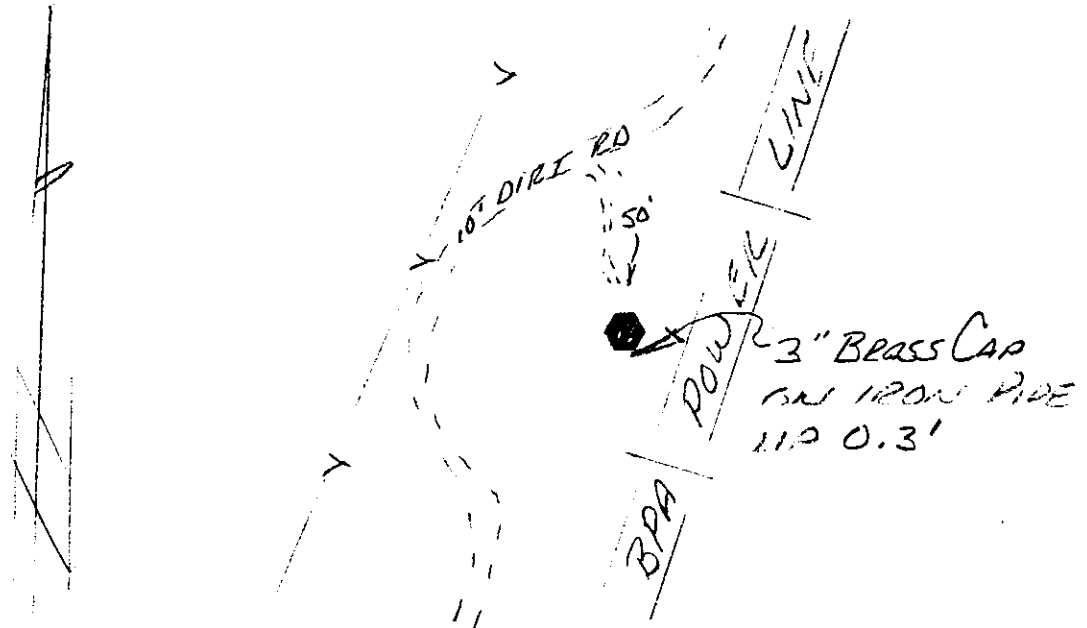
MARK: 17123640 HORIZONTAL ORDER: FIRST

Latitude:	44°03'30.704989"	ONE SIGMA ERROR
Longitude:	121°14'36.753349"	
Northing:	385910.1463	0.008
Easting:	3310462.0558	0.007
Convergence:	+0°01'39.6127"	
Scale Factor:	1.000160124991	
Ellipsoid Height:	3547.9498	0.015
Orthometric Height:	3612.2165	0.029
Geoid Height:	-64.2667	

CONTROL MARK DATA

NAME OF MARK: 17130600 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1195

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

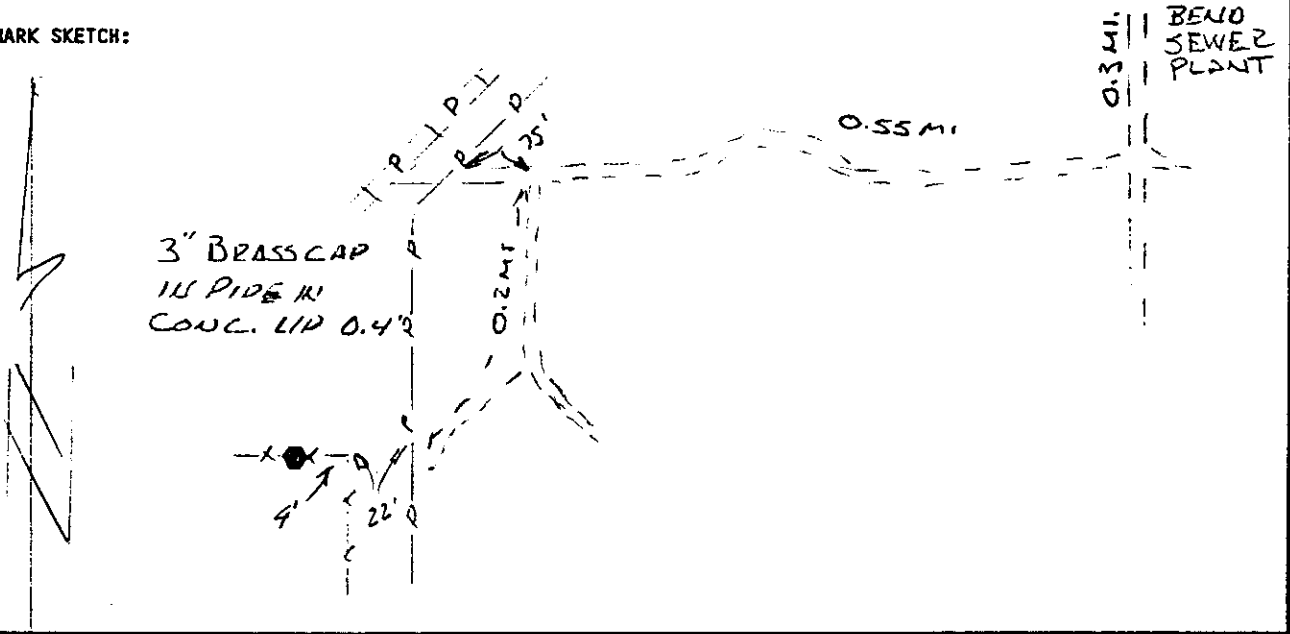
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17130600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'24.905868"	ONE SIGMA ERROR
Longitude:	121°13'24.394975"	
Northing:	409633.0549	0.016
Easting:	3315729.5166	0.014
Convergence:	+0°02'30.1060"	
Scale Factor:	1.000160282532	
Ellipsoid Height:	3307.7161	0.033
Orthometric Height:	3372.3987	0.042
Geoid Height:	-64.6826	

CONTROL MARK DATA

NAME OF MARK: 17130700 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 102

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

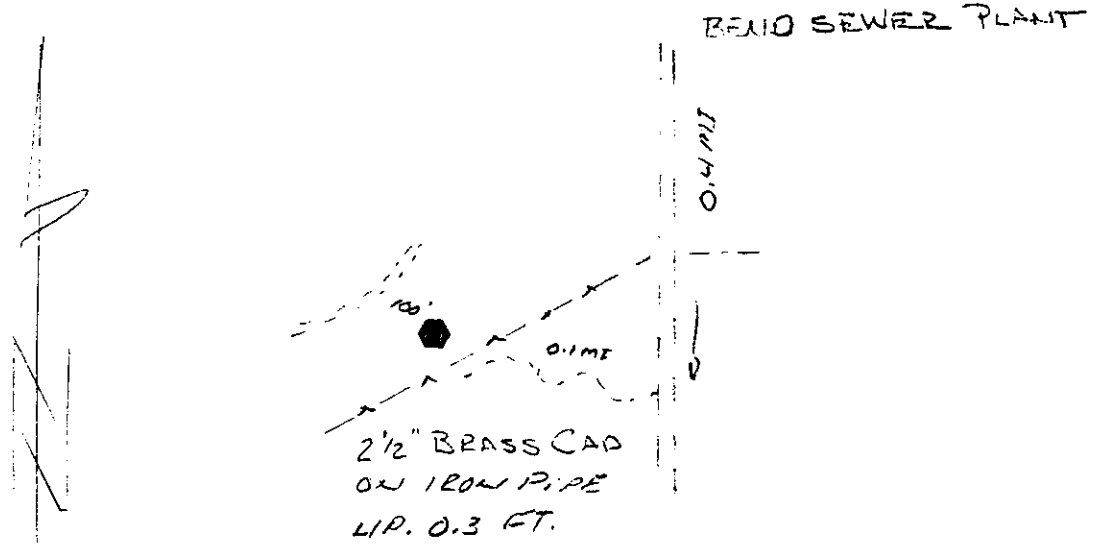
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17130700</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'32.883934"	ONE SIGMA ERROR
Longitude:	121°13'24.535688"	
Northing:	404364.2765	0.014
Easting:	3315723.0821	0.012
Convergence:	+0°02'29.9691"	
Scale Factor:	1.000160282302	
Ellipsoid Height:	3336.4701	0.024
Orthometric Height:	3401.0528	0.035
Geoid Height:	-64.5827	

CONTROL MARK DATA

NAME OF MARK: 17130704 COUNTY: DESCHUTES
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON
 DATE OF MARK: 08/1978 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3119

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

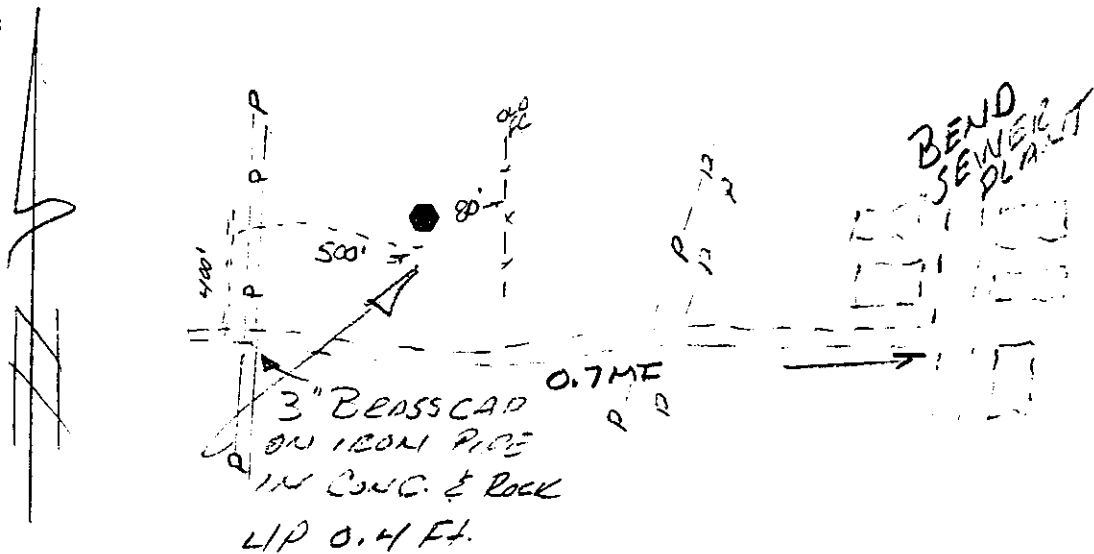
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17130704</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'32.752353"	ONE SIGMA ERROR
Longitude:	121°12'48.828802"	
Northing:	404353.0015	0.014
Easting:	3318328.7328	0.012
Convergence:	+0°02'54.8219"	
Scale Factor:	1.000160383622	
Ellipsoid Height:	3329.5325	0.023
Orthometric Height:	3394.0803	0.034
Geoid Height:	-64.5478	

CONTROL MARK DATA

NAME OF MARK: 17130740 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 099

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

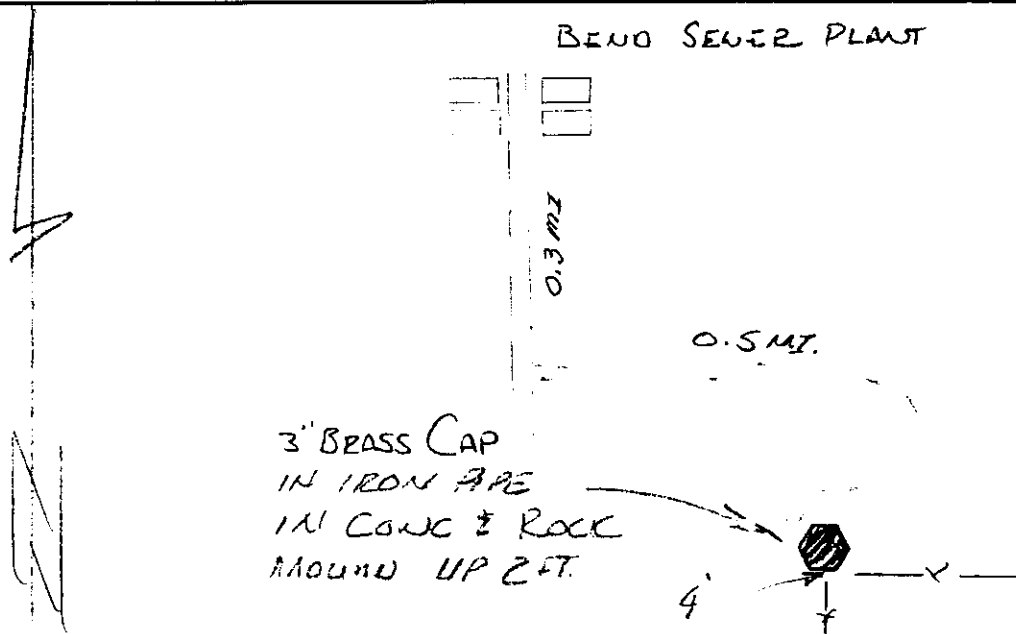
MARK: 17130740 HORIZONTAL ORDER: FIRST

		ONE
Latitude:	44°06'58.883317"	SIGMA
Longitude:	121°13'24.416071"	ERROR
Northing:	406997.4934	0.018
Easting:	3315729.8952	0.016
Convergence:	+0°02'30.0718"	
Scale Factor:	1.000160282546	
Ellipsoid Height:	3289.0582	0.035
Orthometric Height:	3353.6909	0.043
Geoid Height:	-64.6327	

CONTROL MARK DATA

NAME OF MARK: 17130800 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3105

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

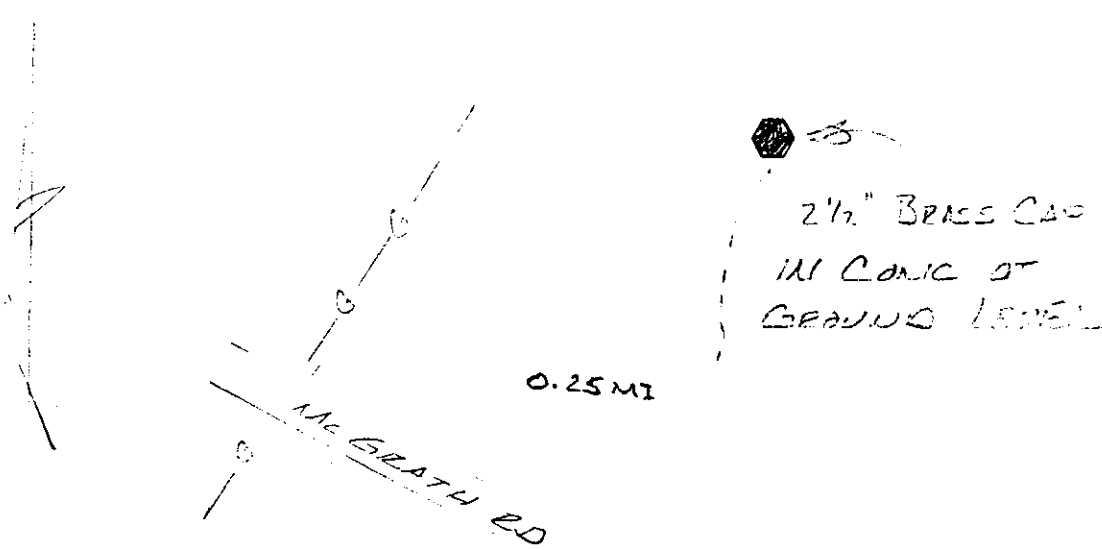
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17130800</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'32.864865"	ONE SIGMA ERROR
Longitude:	121°12'12.227270"	
Northing:	404366.8254	0.015
Easting:	3320999.6479	0.013
Convergence:	+0°03'20.2977"	
Scale Factor:	1.000160503573	
Ellipsoid Height:	3311.5213	0.026
Orthometric Height:	3376.0374	0.036
Geoid Height:	-64.5161	

CONTROL MARK DATA

NAME OF MARK: 17130804 COUNTY: DESCHUTES
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3105

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

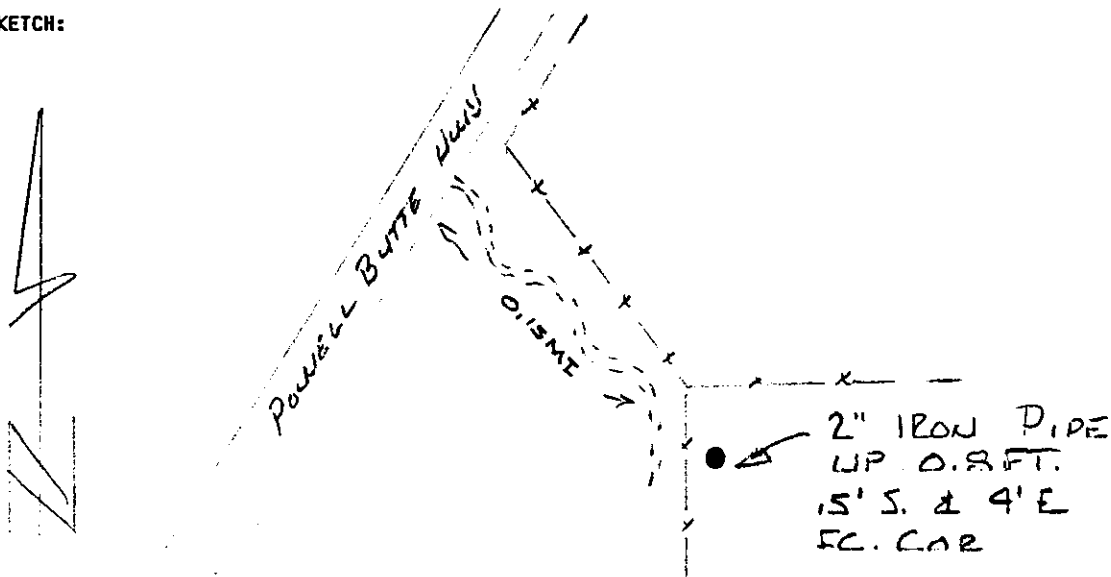
MARK: 17130804 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.925601"	ONE
Longitude:	121°11'35.920500"	SIGMA
Northing:	404375.7118	ERROR
Easting:	3323649.0562	0.015
Convergence:	+0°03'45.5683"	0.013
Scale Factor:	1.000160638655	
Ellipsoid Height:	3319.1952	0.025
Orthometric Height:	3383.6731	0.035
Geoid Height:	-64.4778	

CONTROL MARK DATA

NAME OF MARK: 17130900 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 3/10/66 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

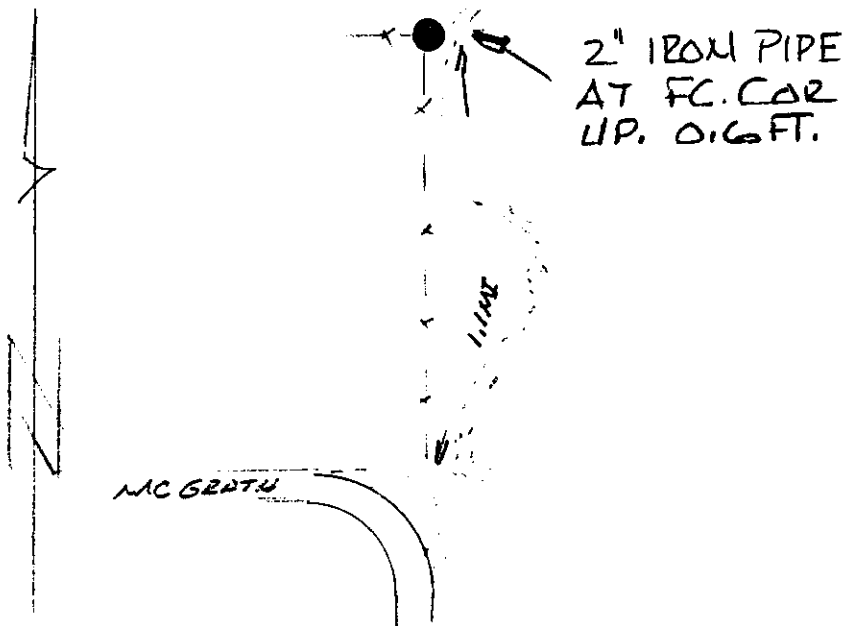
GEODITIC AND MAPPING COORDINATES

MARK: <u>17130900</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°06'32.698838"</u>	ONE SIGMA ERROR
Longitude:	<u>121°10'59.533657"</u>	
Northing:	<u>404355.8121</u>	<u>0.014</u>
Easting:	<u>3326304.3416</u>	<u>0.011</u>
Convergence:	<u>+0°04'10.8943"</u>	
Scale Factor:	<u>1.000160790121</u>	
Ellipsoid Height:	<u>3297.102</u>	<u>0.024</u>
Orthometric Height:	<u>3361.5449</u>	<u>0.034</u>
Geoid Height:	<u>-64.4429</u>	

CONTROL MARK DATA

NAME OF MARK: 17131000 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

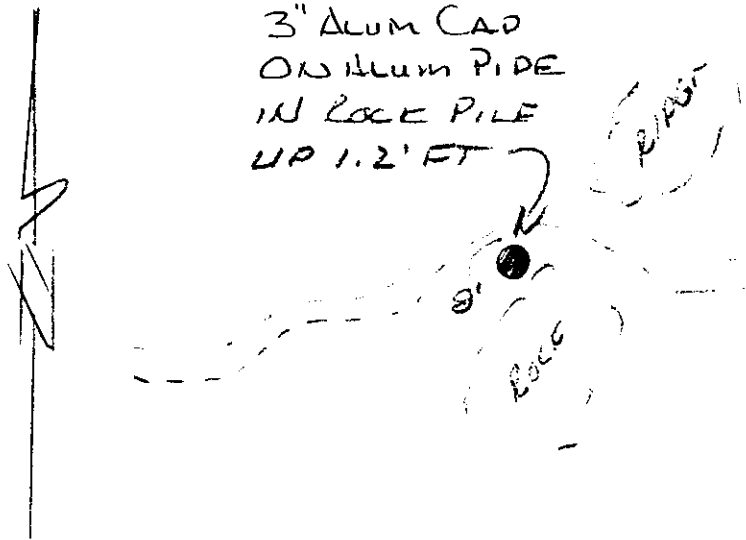
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131000</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°06'32.843655" ONE SIGMA ERROR
Longitude:	121°09'47.367736" 0.019
Northing:	404377.5259 0.014
Easting:	3331570.4904 0.034
Convergence:	+0°05'01.1240" 0.042
Scale Factor:	1.000161138155
Ellipsoid Height:	3302.9937 0.034
Orthometric Height:	3367.3602 0.042
Geoid Height:	-64.3665

CONTROL MARK DATA

NAME OF MARK: 17131400 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 03/27/70 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

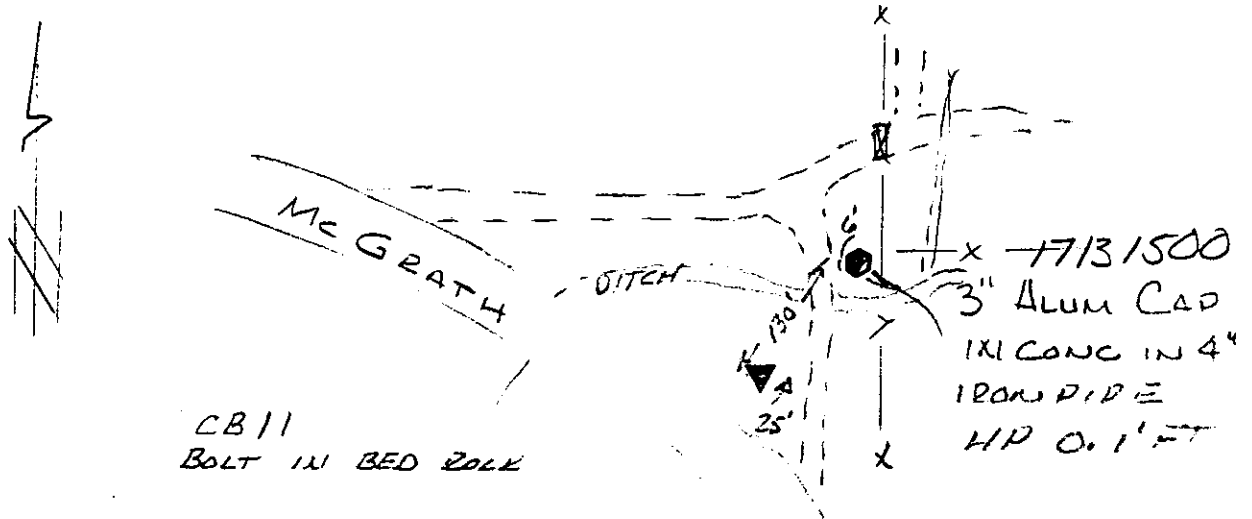
MARK: 17131400 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°05'40.931704"	
Longitude:	121°08'35.460854"	
Northing:	399128.2041	0.022
Easting:	3336826.7045	0.019
Convergence:	+0°05'51.0821"	
Scale Factor:	1.000161548695	
Ellipsoid Height:	3247.1289	0.038
Orthometric Height:	3311.3452	0.045
Geoid Height:	-64.2163	

CONTROL MARK DATA

NAME OF MARK: 17131500 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 6/1981 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1061

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

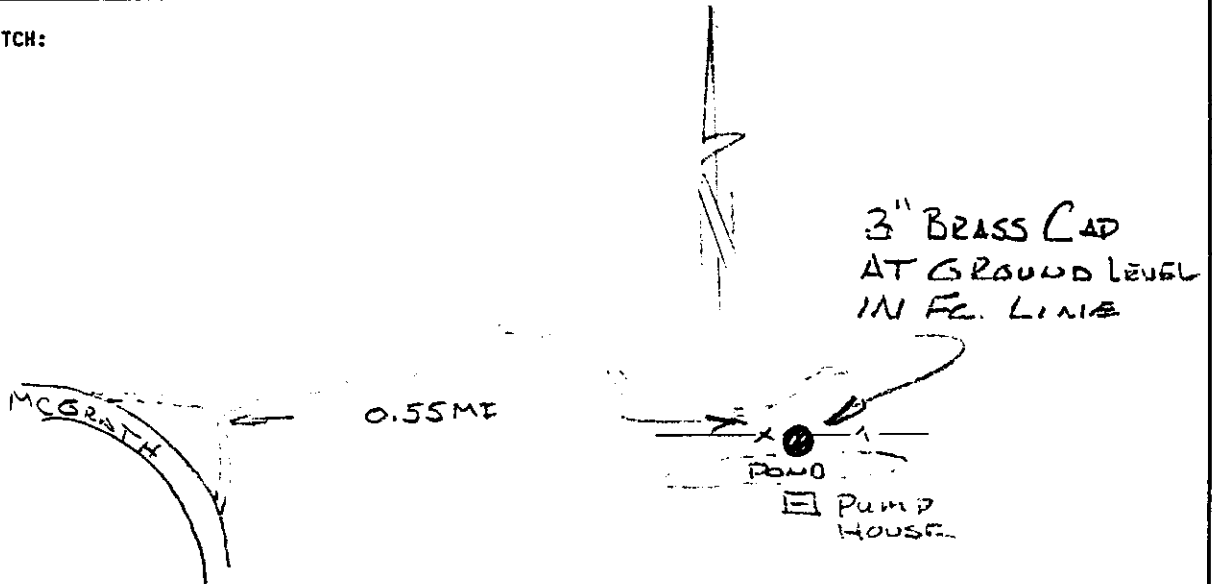
MARK: 17131500 HORIZONTAL ORDER: SECOND

Latitude:	44°05'40.672513"	ONE SIGMA ERROR
Longitude:	121°09'47.464309"	
Northing:	399093.6462	0.013
Easting:	3331571.1544	0.005
Convergence:	+0°05'00.9782"	
Scale Factor:	1.000161138207	
Ellipsoid Height:	3289.8544	0.015
Orthometric Height:	3354.1408	0.015
Geoid Height:	-64.2864	

CONTROL MARK DATA

NAME OF MARK: 17131504 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1/13/91 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1168

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

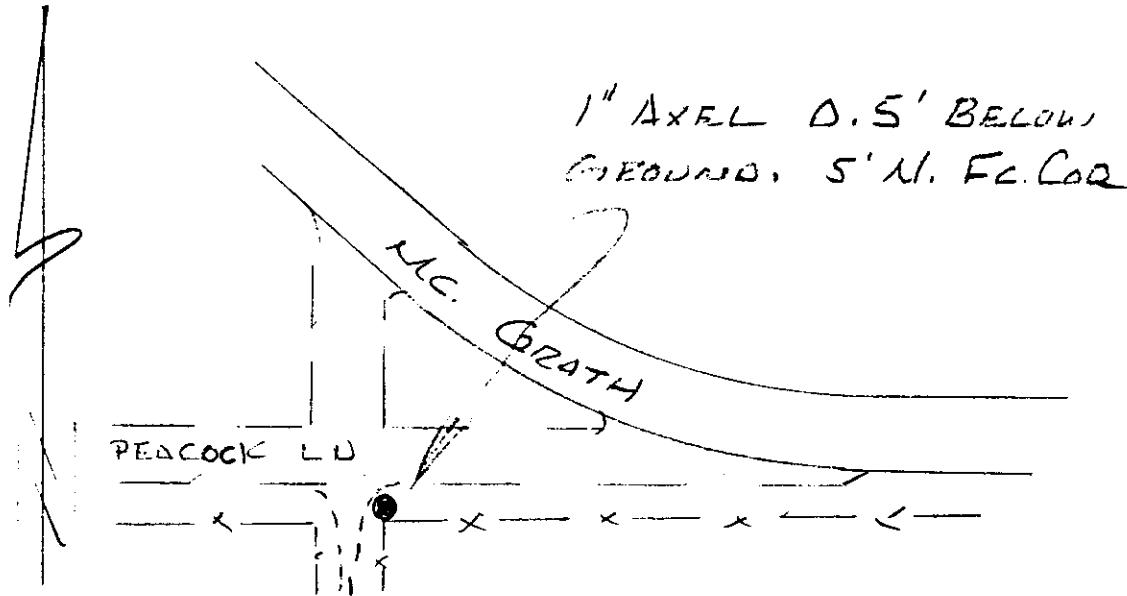
MARK: 17131504 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°05'40.803169"	
Longitude:	121°09'11.460341"	
Northing:	399110.8732	0.018
Easting:	3334199.0944	0.015
Convergence:	+0°05'26.0317"	
Scale Factor:	1.000161335579	
Ellipsoid Height:	3256.0795	0.031
Orthometric Height:	3320.3341	0.040
Geoid Height:	-64.2545	

CONTROL MARK DATA

NAME OF MARK: 17131600 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

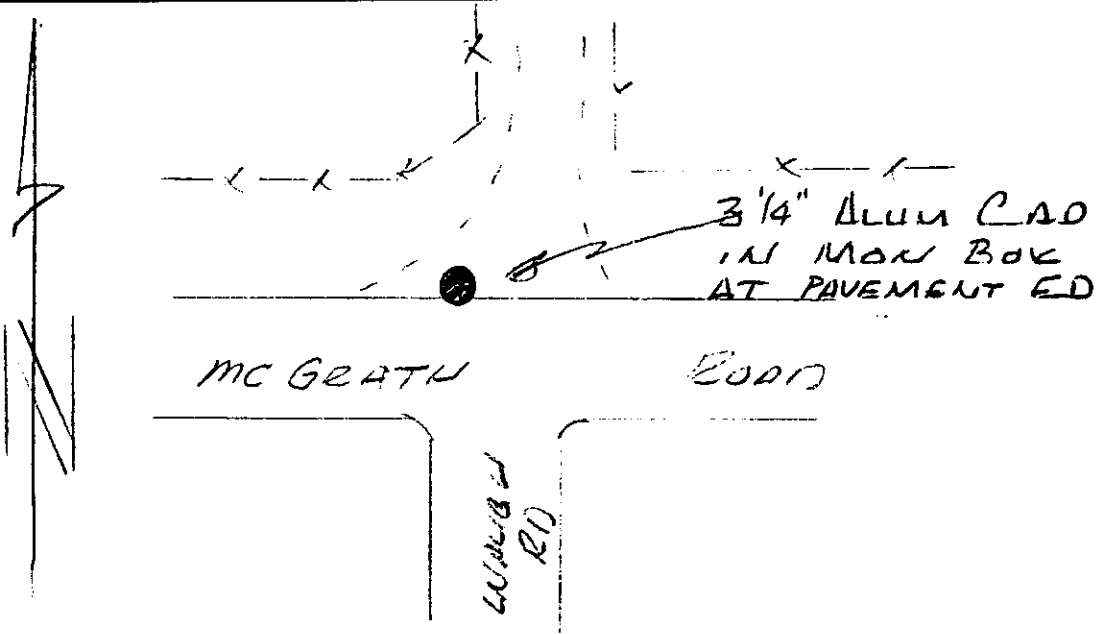
GEODITIC AND MAPPING COORDINATES

MARK: <u>17131600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°05'40.540368"</u>	ONE SIGMA ERROR
Longitude:	<u>121°10'59.610936"</u>	
Northing:	<u>399073.2193</u>	<u>0.013</u>
Easting:	<u>3326305.1257</u>	<u>0.012</u>
Convergence:	<u>+0°04'10.7751"</u>	
Scale Factor:	<u>1.000160790171</u>	
Ellipsoid Height:	<u>3311.4269</u>	<u>0.022</u>
Orthometric Height:	<u>3375.783</u>	<u>0.033</u>
Geoid Height:	<u>-64.3561</u>	

CONTROL MARK DATA

NAME OF MARK: 17131604 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1191

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

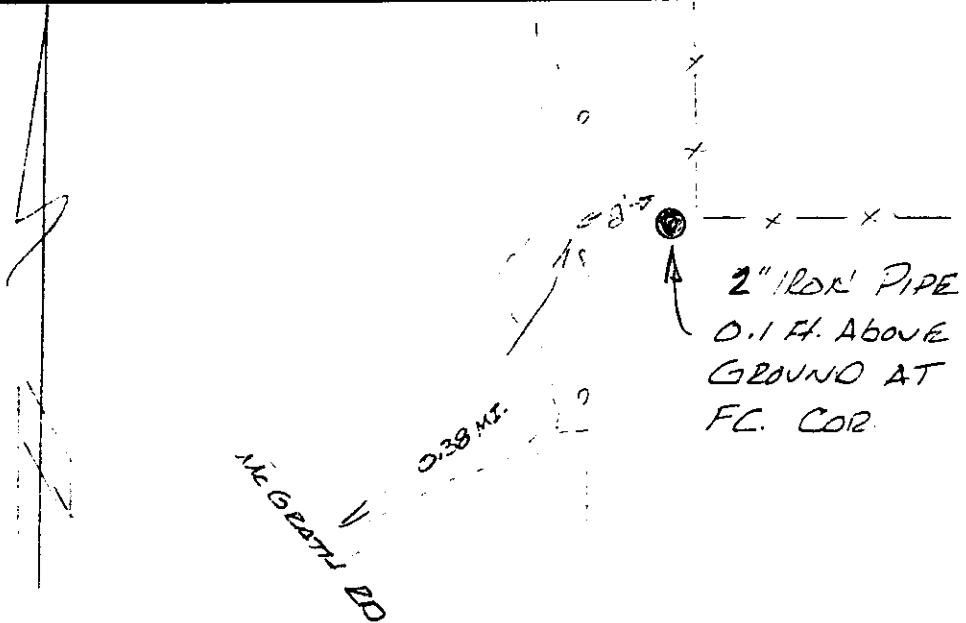
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17131604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.609797"	ONE SIGMA ERROR
Longitude:	121°10'23.535647"	
Northing:	399083.6127	0.014
Easting:	3328938.2846	0.014
Convergence:	+0°04'35.8780"	
Scale Factor:	1.000160956281	
Ellipsoid Height:	3311.2124	0.025
Orthometric Height:	3375.5368	0.035
Geoid Height:	-64.3245	

CONTROL MARK DATA

NAME OF MARK: 17131640 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

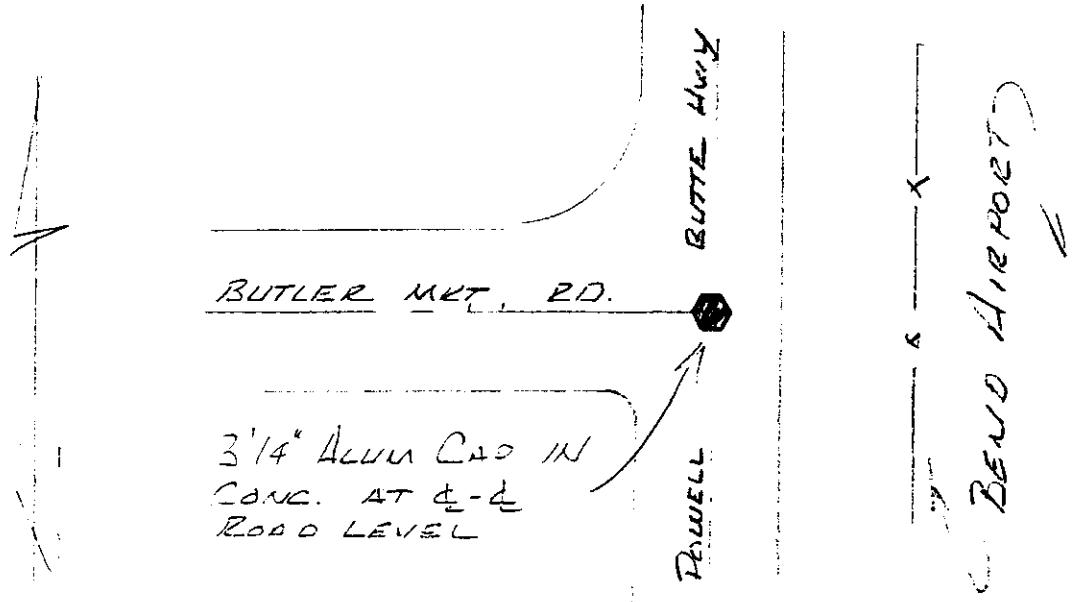
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131640</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°06'06.620008" ONE SIGMA ERROR
Longitude:	121°10'59.573250"
Northing:	401714.5549 0.019
Easting:	3326304.6646 0.015
Convergence:	+0°04'10.8340"
Scale Factor:	1.000160790142
Ellipsoid Height:	3324.6004 0.030
Orthometric Height:	3388.9999 0.039
Geoid Height:	-64.3995

CONTROL MARK DATA

NAME OF MARK: 17131700 COUNTY: DESCHUTES
 MARK SET BY: LS 0804 C. H. KETCHAM STATE: OREGON
 DATE OF MARK: 7/11/88 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 764

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

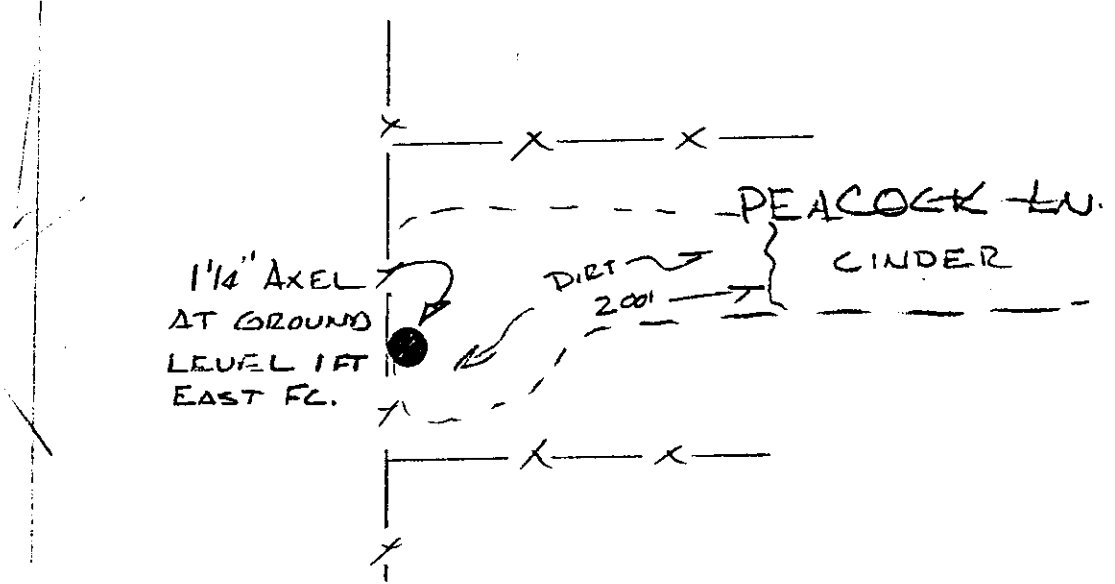
MARK: 17131700 HORIZONTAL ORDER: SECOND

Latitude:	44°05'40.717993"	ONE
Longitude:	121°12'12.273321"	SIGMA
Northing:	399085.411	ERROR
Easting:	3321001.4145	0.044
Convergence:	+0°03'20.2134"	0.029
Scale Factor:	1.000160503660	
Ellipsoid Height:	3361.5963	0.063
Orthometric Height:	3426.0679	0.063
Geoid Height:	-64.4716	

CONTROL MARK DATA

NAME OF MARK: 17131704 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1982- COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

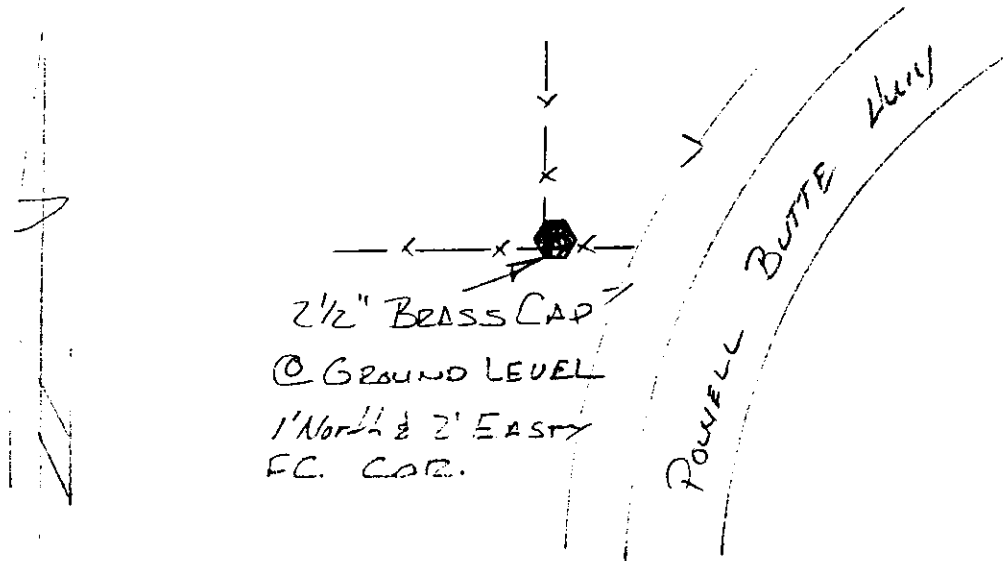
MARK: 17131704 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°05'40.631152"	
Longitude:	121°11'35.944910"	
Northing:	399079.352	0.011
Easting:	3323653.0657	0.010
Convergence:	+0°03'45.4923"	
Scale Factor:	1.000160638874	
Ellipsoid Height:	3370.8527	0.019
Orthometric Height:	3435.2405	0.031
Geoid Height:	-64.3878	

CONTROL MARK DATA

NAME OF MARK: 17131740 COUNTY: DESCHUTES
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON
 DATE OF MARK: 08/1978 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3119

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

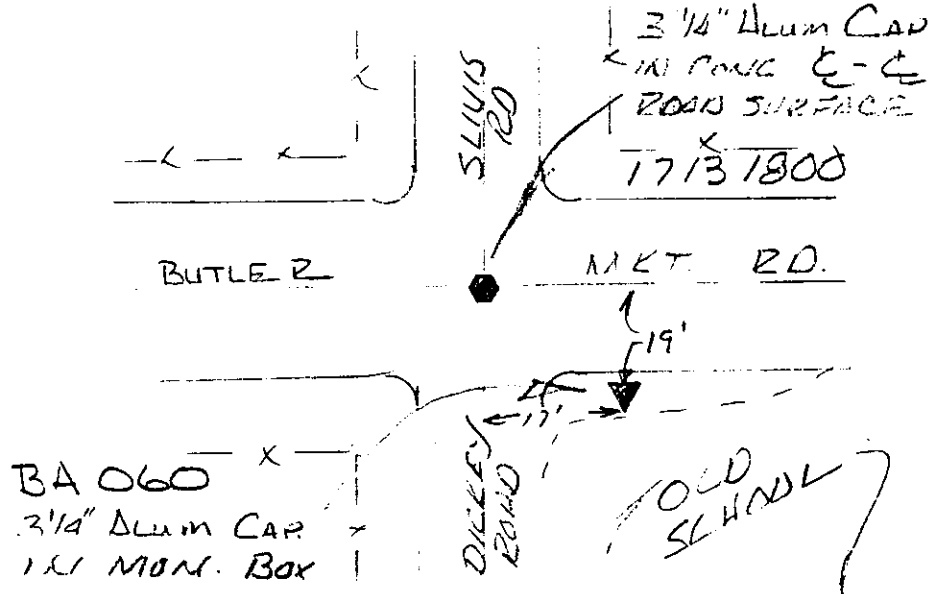
MARK: 17131740 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°06'06.790673"	
Longitude:	121°12'12.244837"	
Northing:	401726.0403	0.013
Easting:	3321000.93	0.010
Convergence:	+0°03'20.2594"	
Scale Factor:	1.000160503635	
Ellipsoid Height:	3340.8159	0.020
Orthometric Height:	3405.2853	0.032
Geoid Height:	-64.4694	

CONTROL MARK DATA

NAME OF MARK: 17131800 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/88 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

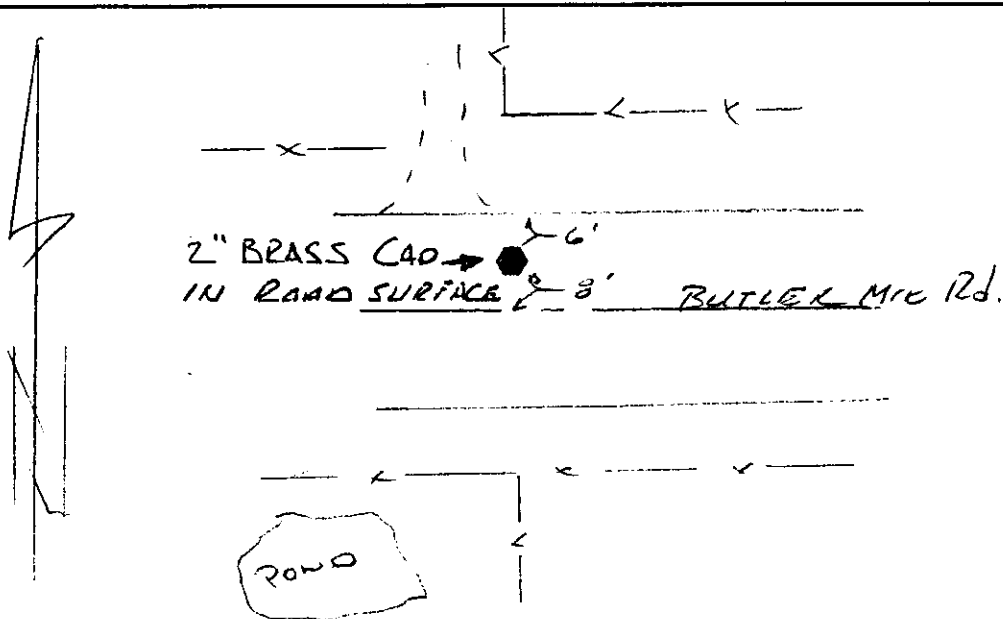
GEODITIC AND MAPPING COORDINATES

MARK:	<u>17131800</u>	HORIZONTAL ORDER:	<u>SECOND</u>
Latitude:	<u>44°05'40.736815"</u>	ONE	
Longitude:	<u>121°13'24.624401"</u>	SIGMA	
Northing:	<u>399082.8356</u>	ERROR	
Easting:	<u>3315720.4463</u>	<u>0.037</u>	
Convergence:	<u>+0°02'29.8682"</u>	<u>0.031</u>	
Scale Factor:	<u>1.000160282208</u>		
Ellipsoid Height:	<u>3395.9355</u>	<u>0.045</u>	
Orthometric Height:	<u>3460.4142</u>	<u>0.045</u>	
Geoid Height:	<u>-64.4787</u>		

CONTROL MARK DATA

NAME OF MARK: 17131804 COUNTY: DESCHUTES
 MARK SET BY: LS 1652 ROBERT POVEY STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 939

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

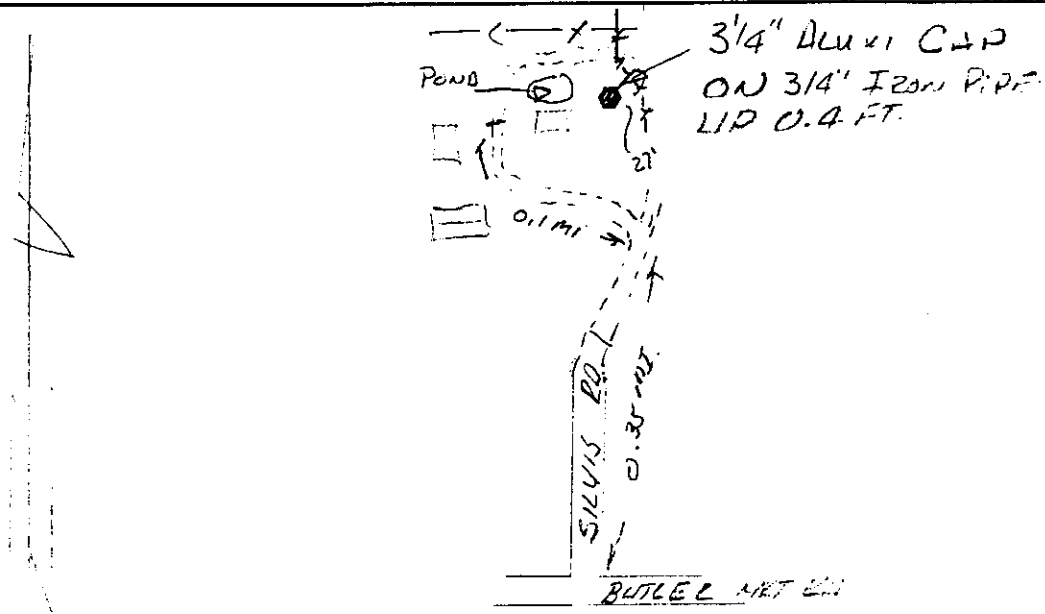
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131804</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.729099"	ONE SIGMA ERROR
Longitude:	121°12'48.439990"	
Northing:	399084.1344	0.012
Easting:	3318361.5777	0.010
Convergence:	+0°02'55.0470"	
Scale Factor:	1.000160384999	
Ellipsoid Height:	3389.0113	0.020
Orthometric Height:	3453.4624	0.031
Geoid Height:	-64.4511	

CONTROL MARK DATA

NAME OF MARK: 17131840 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 3/20/88 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 153

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

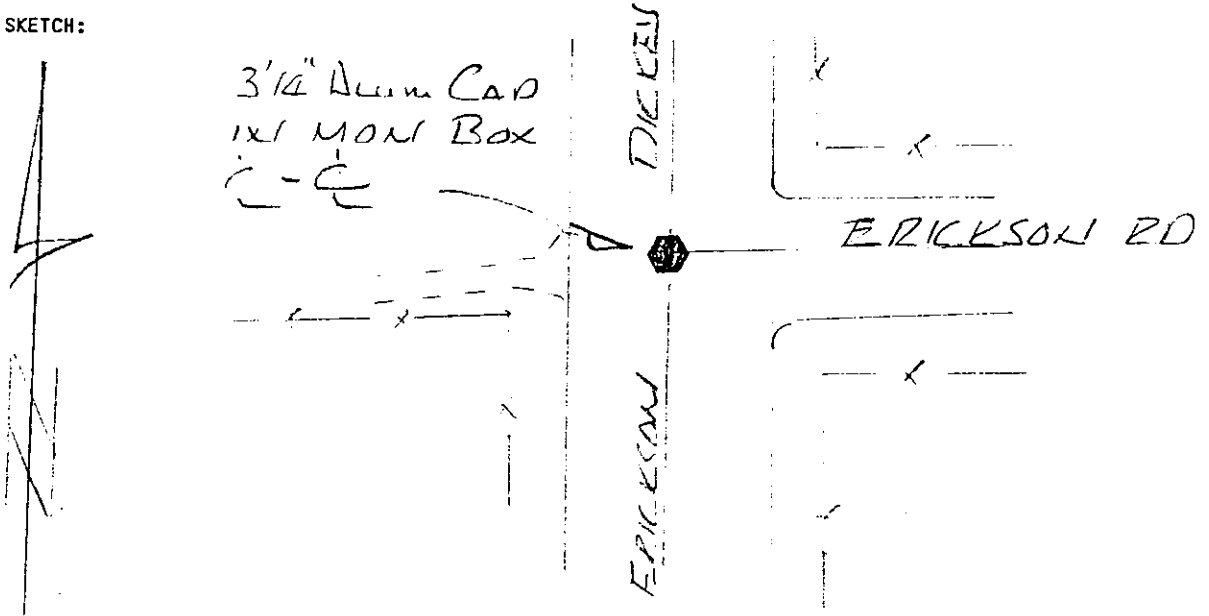
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131840</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'06.795782"	ONE SIGMA ERROR
Longitude:	121°13'24.565454"	
Northing:	401722.0773	0.044
Easting:	3315722.8306	0.021
Convergence:	+0°02'29.9288"	
Scale Factor:	1.000160282293	
Ellipsoid Height:	3375.5863	0.078
Orthometric Height:	3440.1217	0.078
Geoid Height:	-64.5355	

CONTROL MARK DATA

NAME OF MARK: 17131900 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 06/1981 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1058

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

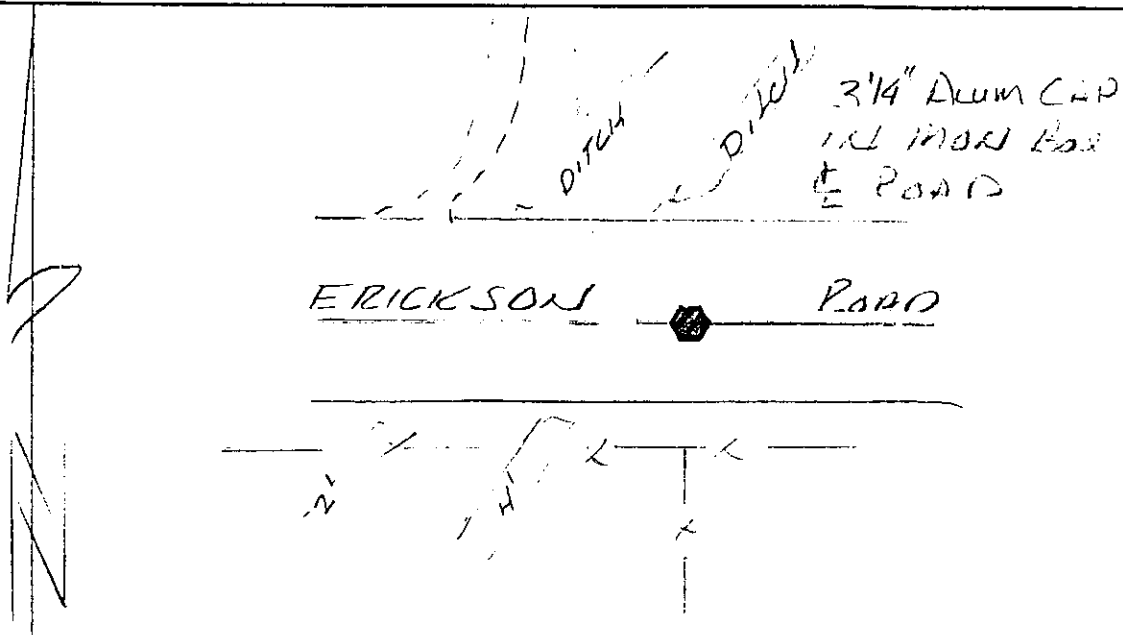
MARK: 17131900 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.504583"	ONE
Longitude:	121°13'24.357382"	SIGMA
		ERROR
Northing:	393792.8069	0.011
Easting:	3315743.7842	0.009
Convergence:	+0°02'30.0148"	
Scale Factor:	1.000160283048	
Ellipsoid Height:	3427.5825	0.018
Orthometric Height:	3491.9621	0.030
Geoid Height:	-64.3796	

CONTROL MARK DATA

NAME OF MARK: 17131904 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 06/1981 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1059

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

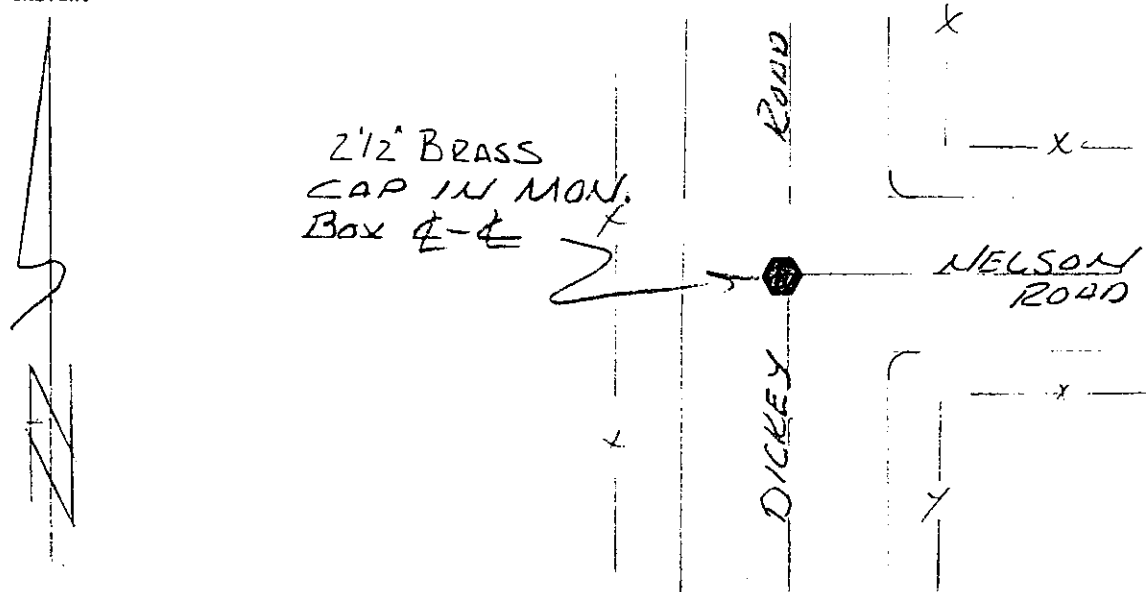
MARK: 17131904 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.506712"	ONE
Longitude:	121°12'48.749134"	SIGMA
Northing:	393795.0694	ERROR
Easting:	3318343.4955	0.012
Convergence:	+0°02'54.7862"	0.009
Scale Factor:	1.000160384243	
Ellipsoid Height:	3437.1657	0.019
Orthometric Height:	3501.5202	0.031
Geoid Height:	-64.3545	

CONTROL MARK DATA

NAME OF MARK: 17131940 COUNTY: DESCHUTES
 MARK SET BY: UNKNOWN STATE: OREGON
 DATE OF MARK: 1975+- COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 952

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

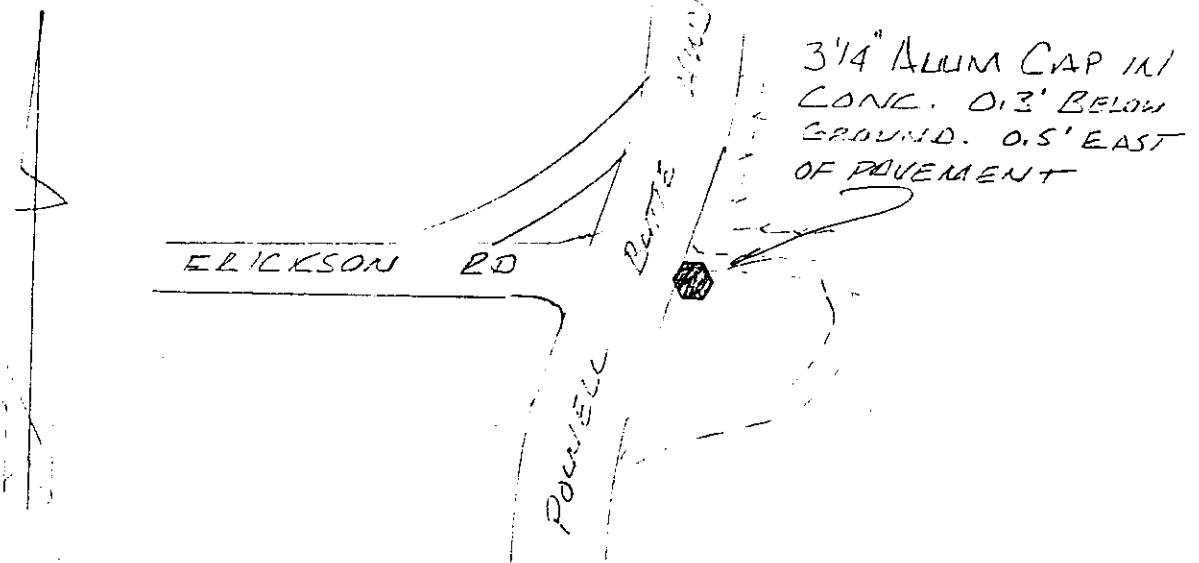
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17131940</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'14.618221"	ONE SIGMA ERROR
Longitude:	121°13'24.490583"	
Northing:	396437.5687	0.012
Easting:	3315732.1369	0.010
Convergence:	+0°02'29.9417"	
Scale Factor:	1.000160282629	
Ellipsoid Height:	3432.3248	0.021
Orthometric Height:	3496.7543	0.032
Geoid Height:	-64.4295	

CONTROL MARK DATA

NAME OF MARK: 17132000 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 936

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

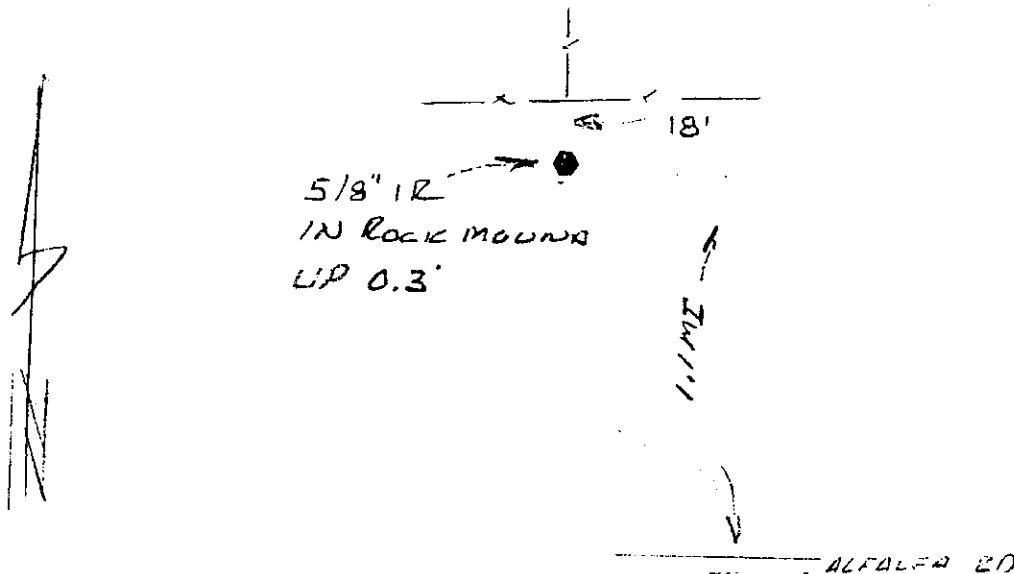
MARK: 17132000 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.505325"	ONE SIGMA ERROR
Longitude:	121°12'12.360051"	
Northing:	393797.3433	0.019
Easting:	3321000.2147	0.015
Convergence:	+0°03'20.1008"	
Scale Factor:	1.000160503604	
Ellipsoid Height:	3402.765	0.030
Orthometric Height:	3467.0911	0.039
Geoid Height:	-64.3261	

CONTROL MARK DATA

NAME OF MARK: 17132004 COUNTY: DESCHUTES
 MARK SET BY: LS 0930 RICHARD GRAUE STATE: OREGON
 DATE OF MARK: 1973+ COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3191

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 17132004 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.406877"	ONE
Longitude:	121°11'36.109494"	SIGMA
Northing:	393790.1019	ERROR
Easting:	3323646.8312	0.011
Convergence:	+0°03'45.3189"	0.011
Scale Factor:	1.000160638539	
Ellipsoid Height:	3363.7854	0.017
Orthometric Height:	3428.0864	0.030
Geoid Height:	-64.301	

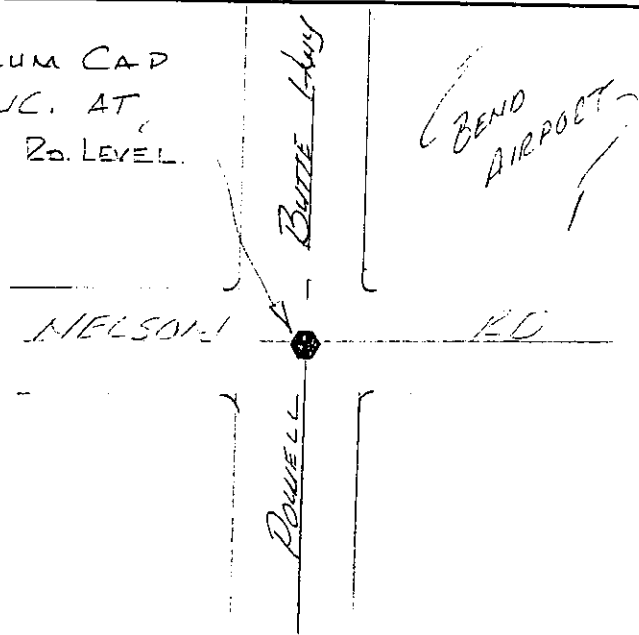
CONTROL MARK DATA

NAME OF MARK: 17132040 COUNTY: DESCHUTES
 MARK SET BY: J.S. 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12-15-88 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 934

MARK SKETCH:



3 1/4" ALUM CAP
 IN CONC. AT
 C - C 20 LEVEL



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

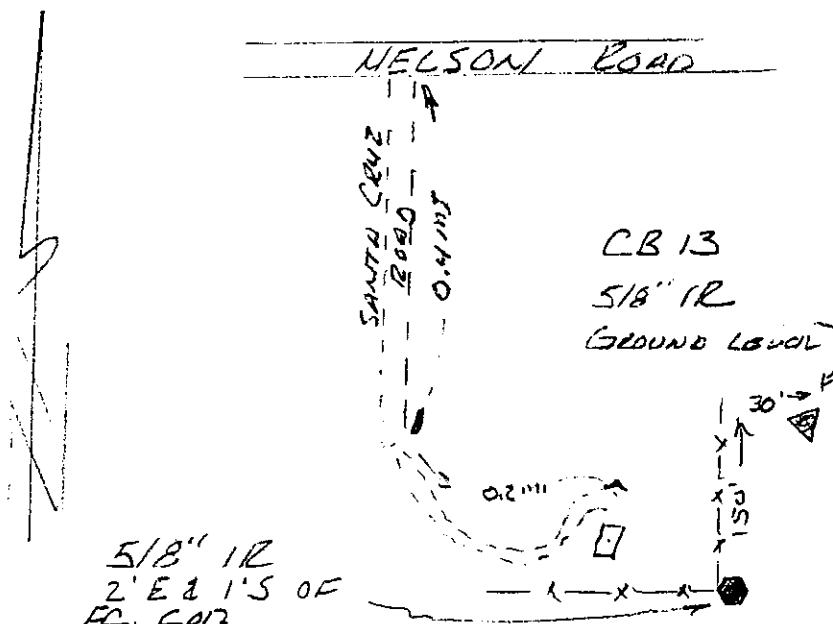
MARK: 17132040 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.636650"	ONE
Longitude:	121°12'12.316021"	SIGMA
Northing:	396443.9065	ERROR
Easting:	3321000.8613	0.014
Convergence:	+0°03'20.1576"	0.020
Scale Factor:	1.000160503634	
Ellipsoid Height:	3398.579	0.022
Orthometric Height:	3462.9518	0.033
Geoid Height:	-64.3728	

CONTROL MARK DATA

NAME OF MARK: 17132100 COUNTY: DESCHUTES
 MARK SET BY: LS 0980 ED. GRAVES STATE: OREGON
 DATE OF MARK: 10/30/78 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3163

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

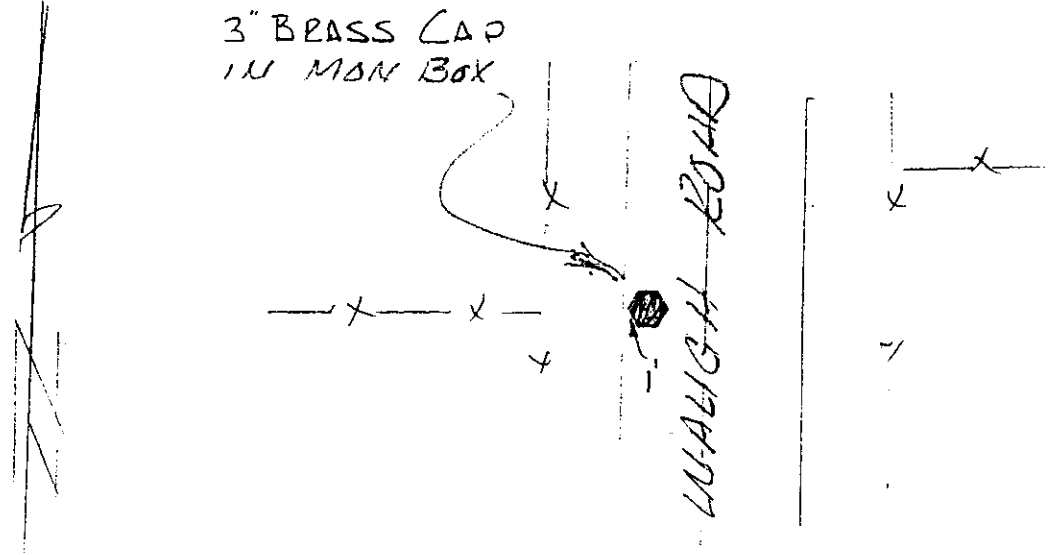
MARK: 17132100 HORIZONTAL ORDER: SECOND

Latitude:	44°04'48.542693"	ONE
Longitude:	121°10'59.869774"	SIGMA
Northing:	393806.9092	ERROR
Easting:	3326292.6302	0.044
Convergence:	+0°04'10.5298"	0.021
Scale Factor:	1.000160789423	
Ellipsoid Height:	3377.7199	0.055
Orthometric Height:	3441.992	0.055
Geoid Height:	-64.2721	

CONTROL MARK DATA

NAME OF MARK: 17132104 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 07/09/91 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1065

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

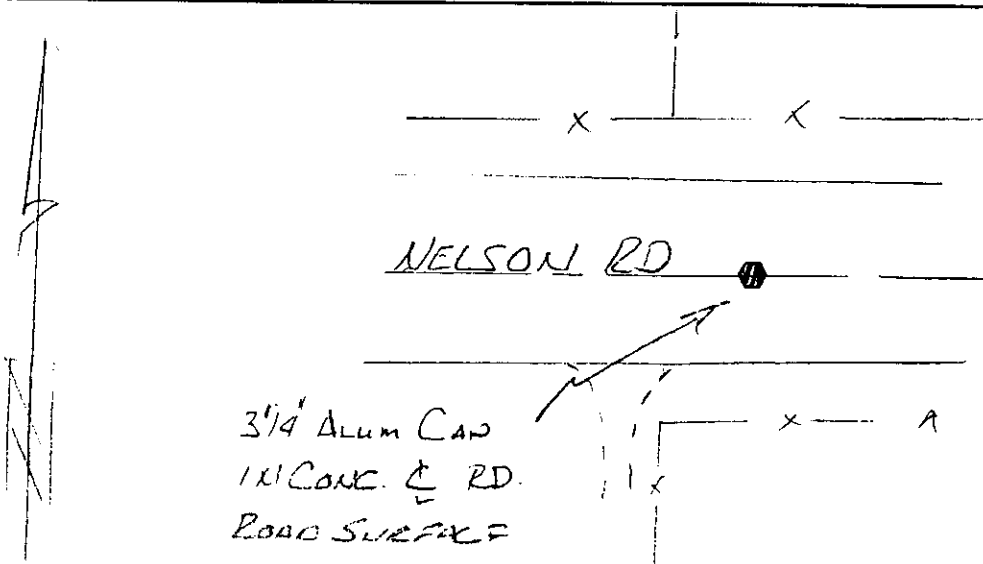
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.286889"	ONE SIGMA ERROR
Longitude:	121°10'23.652381"	
Northing:	393784.3746	0.012
Easting:	3328936.8487	0.011
Convergence:	+0°04'35.7246"	
Scale Factor:	1.000160956190	
Ellipsoid Height:	3347.2101	0.022
Orthometric Height:	3411.451	0.033
Geoid Height:	-64.241	

CONTROL MARK DATA

NAME OF MARK: 17132140 COUNTY: DESCHUTES
 MARK SET BY: LS. 1642 ROBERT KARL STATE: OREGON
 DATE OF MARK: 05/24/82 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

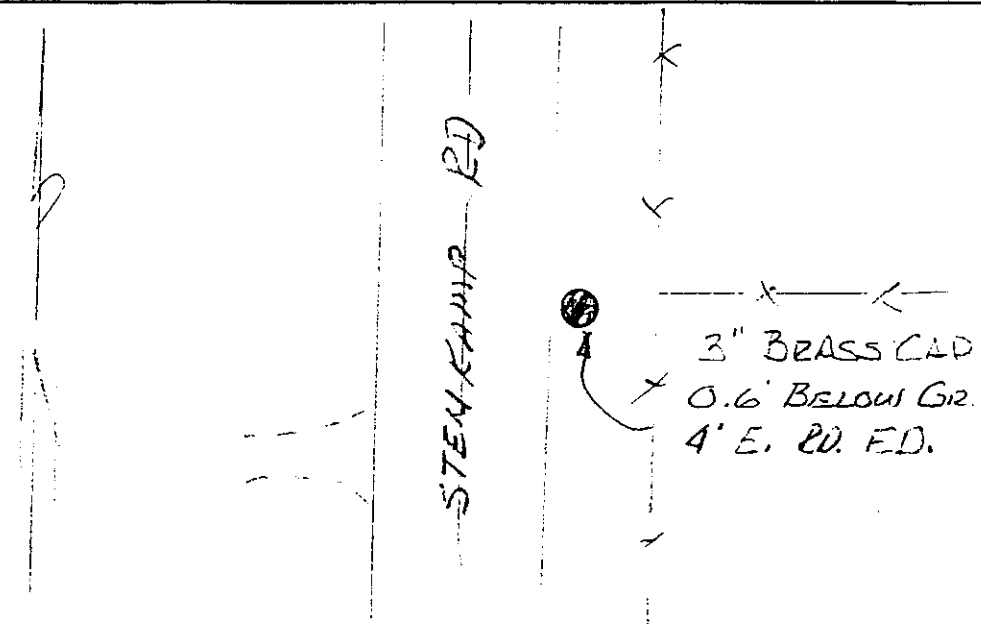
MARK: 17132140 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.612776"	ONE
Longitude:	121°10'59.741050"	SIGMA
Northing:	396447.2782	ERROR
Easting:	3326298.8198	0.013
Convergence:	+0°04'10.6520"	0.013
Scale Factor:	1.000160789793	
Ellipsoid Height:	3326.7372	0.023
Orthometric Height:	3391.0499	0.033
Geoid Height:	-64.3127	

CONTROL MARK DATA

NAME OF MARK: 17132200 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 08/08/91 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1085

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

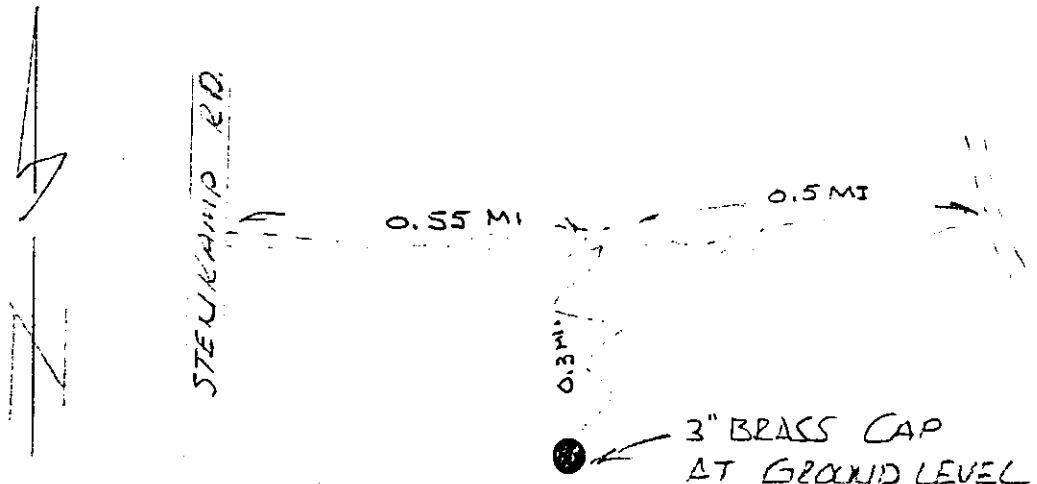
MARK: 17132200 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.435363"	ONE
Longitude:	121°09'47.399438"	SIGMA
Northing:	393803.1118	ERROR
Easting:	3331583.6094	0.013
Convergence:	+0°05'00.9447"	0.012
Scale Factor:	1.000161139109	
Ellipsoid Height:	3320.5459	0.024
Orthometric Height:	3384.7585	0.034
Geoid Height:	-64.2126	

CONTROL MARK DATA

NAME OF MARK: 17132204 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 11/19/91 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1111

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

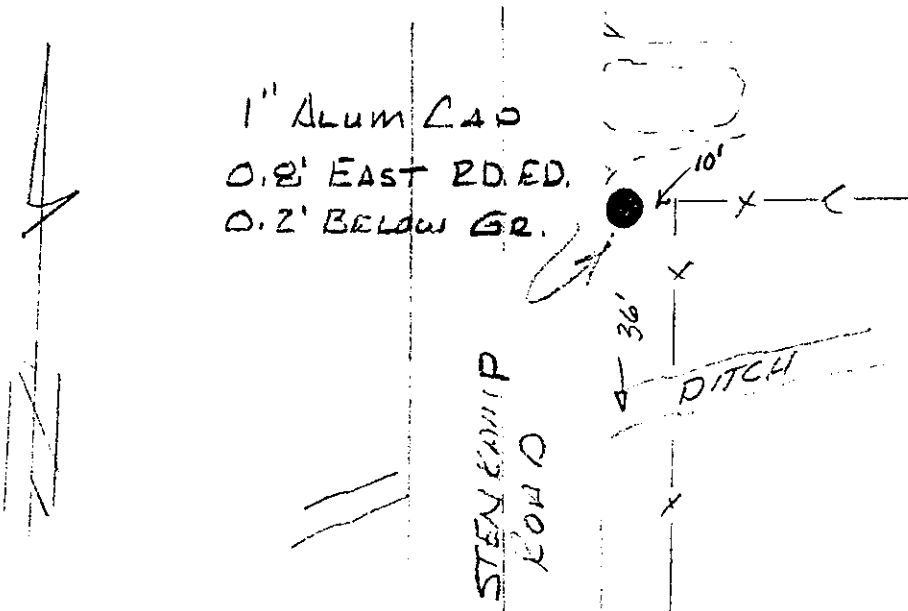
MARK: 17132204 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.583196"	ONE
Longitude:	121°09'11.200532"	SIGMA
Northing:	393822.1015	ERROR
Easting:	3334226.4213	0.016
Convergence:	+0°05'26.1273"	0.015
Scale Factor:	1.000161337718	
Ellipsoid Height:	3293.5255	0.031
Orthometric Height:	3357.7063	0.040
Geoid Height:	-64.1809	

CONTROL MARK DATA

NAME OF MARK: 17132240 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES RUSSARD STATE: OREGON
 DATE OF MARK: 03/23/70 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

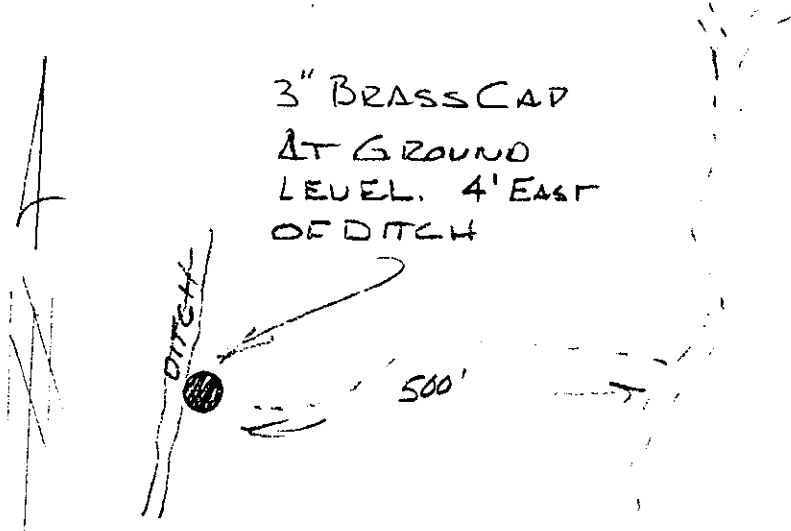
MARK: 17132240 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.554327"	ONE
Longitude:	121°09'47.432242"	SIGMA
Northing:	396448.4167	ERROR
Easting:	3331577.3549	0.013
Convergence:	+0°05'00.9612"	0.012
Scale Factor:	1.000161138656	
Ellipsoid Height:	3311.6771	0.024
Orthometric Height:	3375.9264	0.034
Geoid Height:	-64.2494	

CONTROL MARK DATA

NAME OF MARK: 17132300 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO SURVEYOR STATE: OREGON
 DATE OF MARK: 11/21/91 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1110

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

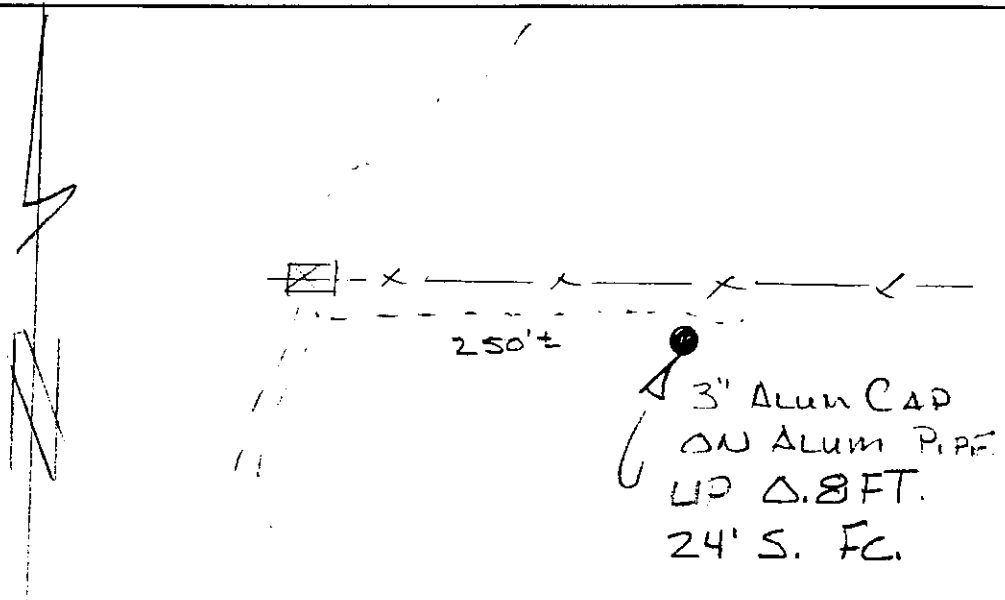
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17132300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'48.648671"</u>	ONE SIGMA ERROR
Longitude:	<u>121°08'34.931345"</u>	
Northing:	<u>393833.0815</u>	<u>0.017</u>
Easting:	<u>3336874.375</u>	<u>0.015</u>
Convergence:	<u>+0°05'51.3586"</u>	
Scale Factor:	<u>1.000161552713</u>	
Ellipsoid Height:	<u>3303.9622</u>	<u>0.031</u>
Orthometric Height:	<u>3368.1113</u>	<u>0.040</u>
Geoid Height:	<u>-64.1492</u>	

CONTROL MARK DATA

NAME OF MARK: 17132340 COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 03/23/70 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

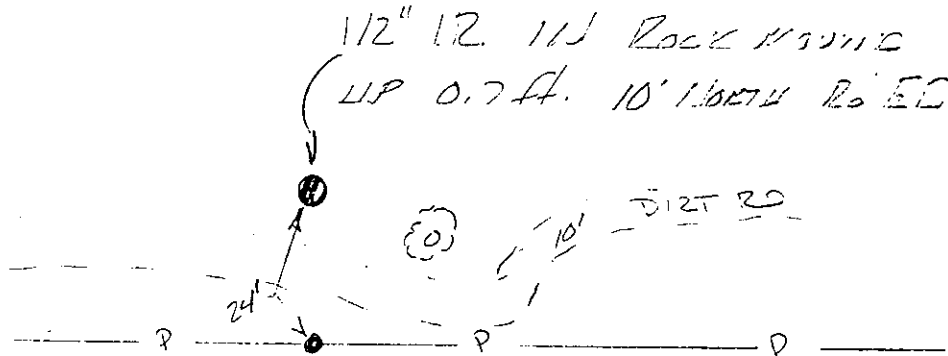
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'14.823348"	ONE SIGMA ERROR
Longitude:	121°08'35.234503"	
Northing:	396483.9948	0.019
Easting:	3336847.7285	0.016
Convergence:	+0°05'51.1937"	
Scale Factor:	1.000161550467	
Ellipsoid Height:	3265.5008	0.033
Orthometric Height:	3329.6835	0.041
Geoid Height:	-64.1827	

CONTROL MARK DATA

NAME OF MARK: 17132600 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 1968 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

<u>MARK: 17132600</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'56.523503"	ONE SIGMA ERROR
Longitude:	121°08'34.992461"	
Northing:	388553.8873	0.017
Easting:	3336878.9035	0.015
Convergence:	+0°05'51.2244"	
Scale Factor:	1.000161553099	
Ellipsoid Height:	3361.8922	0.030
Orthometric Height:	3425.9776	0.039
Geoid Height:	-64.0853	

CONTROL MARK DATA

NAME OF MARK: 17132640 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1197

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

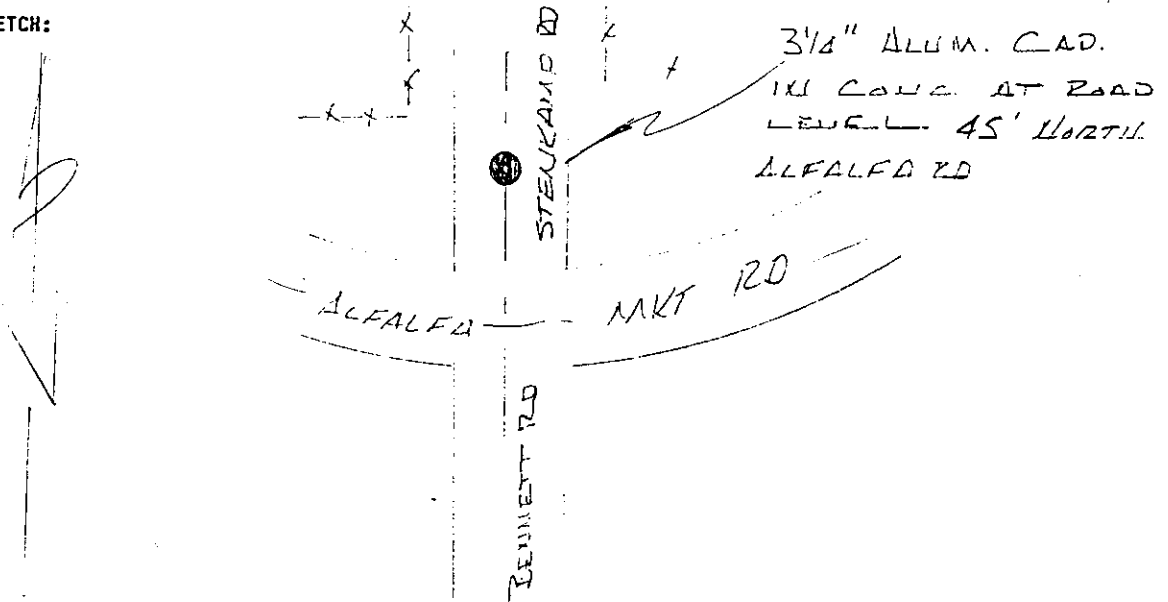
GEOIDITIC AND MAPPING COORDINATES

<u>MARK: 17132640</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°04'22.553313"	ONE SIGMA ERROR
Longitude:	121°08'34.920769"	
Northing:	391190.1685	0.017
Easting:	3336879.649	0.015
Convergence:	+0°05'51.3201"	
Scale Factor:	1.000161553160	
Ellipsoid Height:	3339.7326	0.031
Orthometric Height:	3403.8548	0.039
Geoid Height:	-64.1222	

CONTROL MARK DATA

NAME OF MARK: 17132700 COUNTY: DESCHUTES
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 964

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

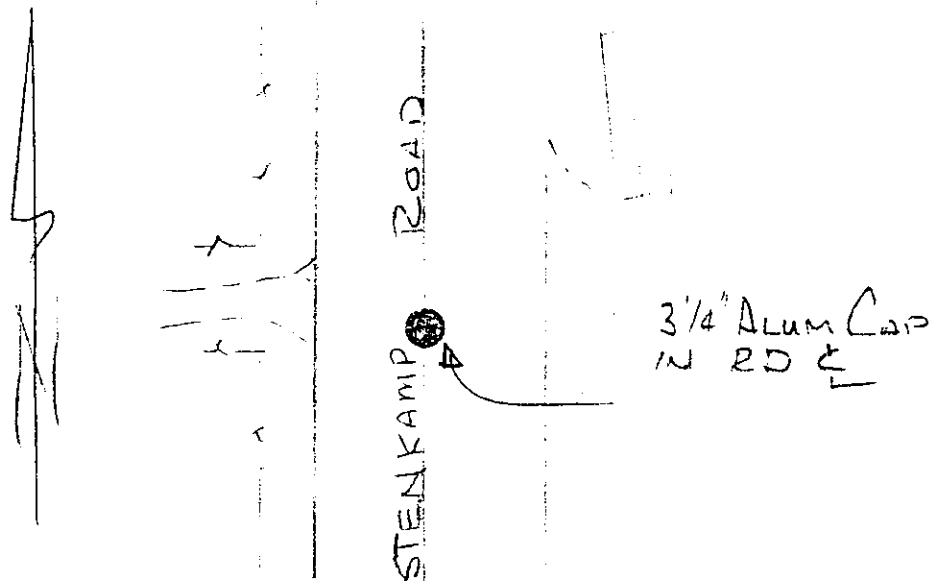
MARK: 17132700 HORIZONTAL ORDER: FIRST

Latitude:	44°03'56.339945"	ONE
Longitude:	121°09'47.587719"	SIGMA
Northing:	388526.9185	ERROR
Easting:	3331577.5569	0.014
Convergence:	+0°05'00.7352"	0.013
Scale Factor:	1.000161138676	
Ellipsoid Height:	3404.0346	0.025
Orthometric Height:	3468.1735	0.035
Geoid Height:	-64.1389	

CONTROL MARK DATA

NAME OF MARK: 17132740 COUNTY: DESCHUTES
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 963

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

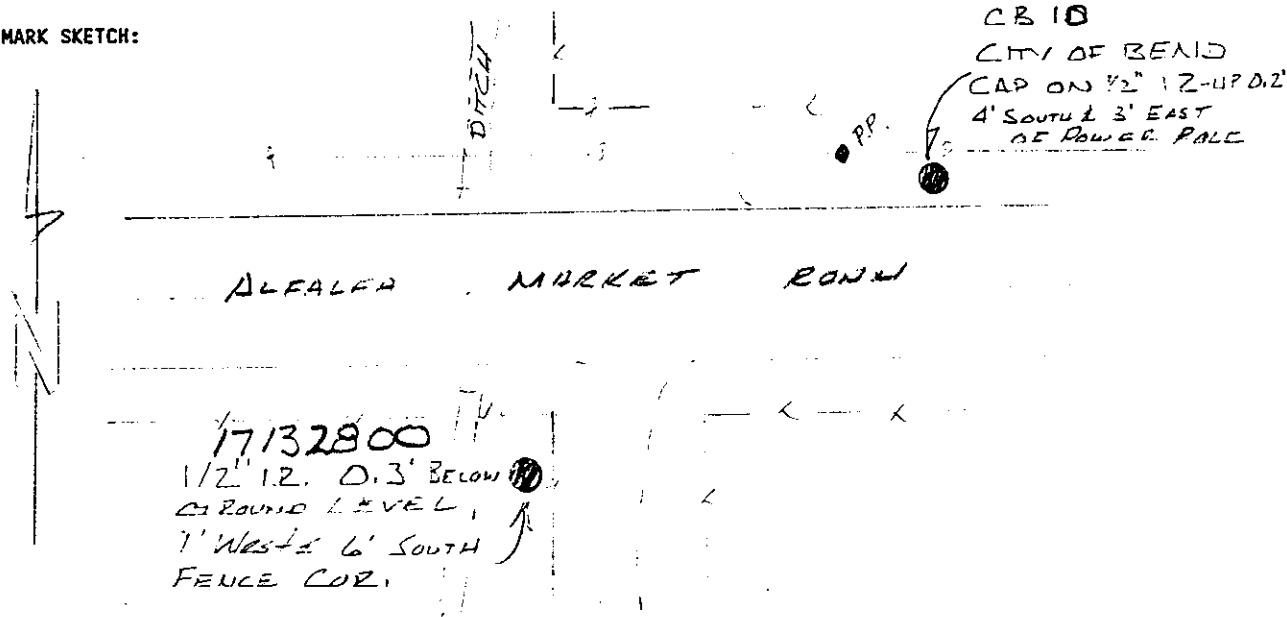
MARK: 17132740 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.321670"	ONE
Longitude:	121°09'47.598348"	SIGMA
Northing:	391158.3195	ERROR
Easting:	3331572.944	0.014
Convergence:	+0°05'00.7670"	
Scale Factor:	1.000161138341	
Ellipsoid Height:	3377.1547	0.027
Orthometric Height:	3441.3337	0.036
Geoid Height:	-64.179	

CONTROL MARK DATA

NAME OF MARK: 17132800 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 17132800

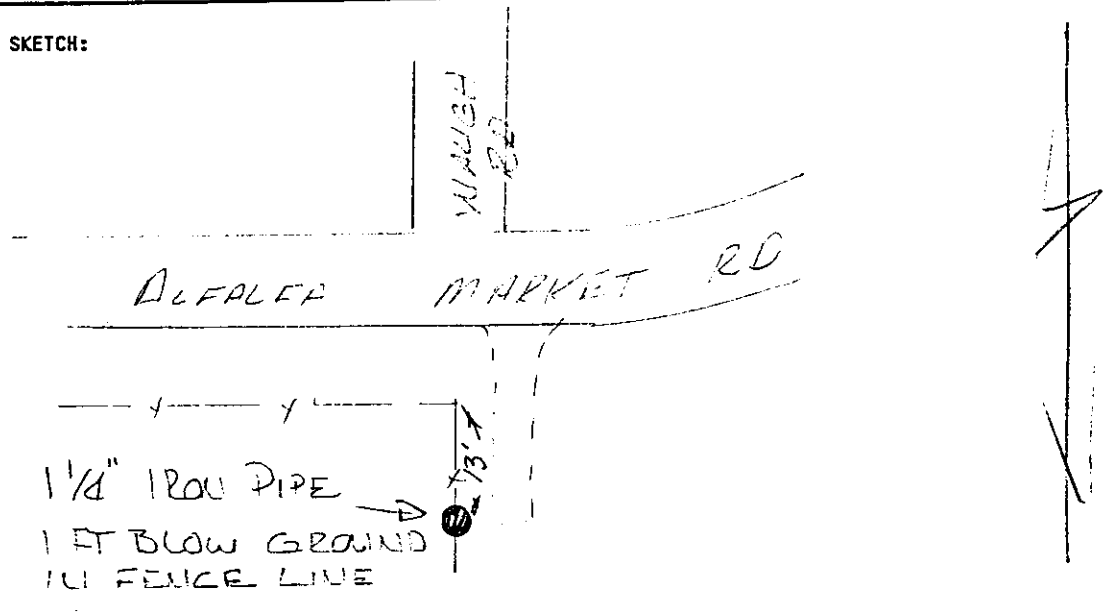
HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°03'56.407480"	
Longitude:	121°11'00.046621"	
Northing:	388526.6898	0.037
Easting:	3326286.1282	0.042
Convergence:	+0°04'10.3414"	
Scale Factor:	1.000160789035	
Ellipsoid Height:	3418.3112	0.044
Orthometric Height:	3482.5034	0.044
Geoid Height:	-64.1922	

CONTROL MARK DATA

NAME OF MARK: 17132804 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

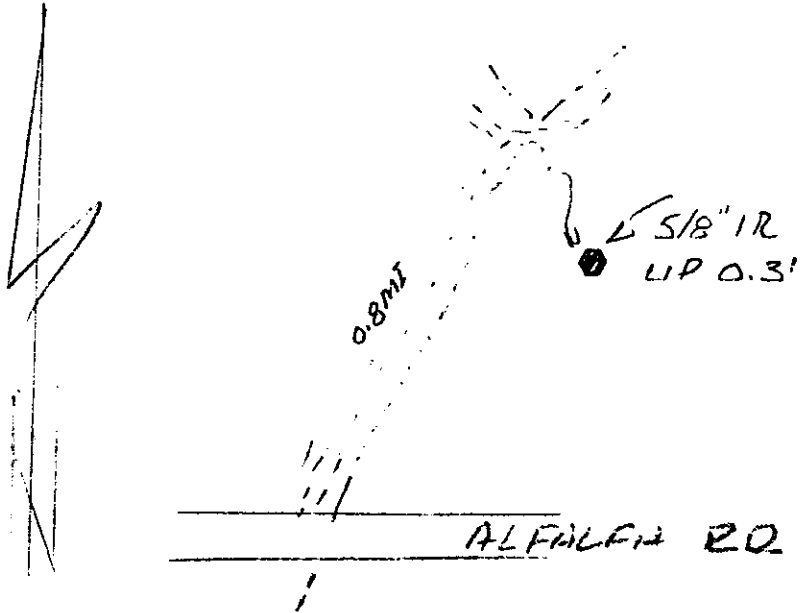
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132804</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'56.427913"	ONE SIGMA ERROR
Longitude:	121°10'23.866820"	
Northing:	388532.1271	0.012
Easting:	3328928.209	0.012
Convergence:	+0°04'35.5038"	
Scale Factor:	1.000160955622	
Ellipsoid Height:	3416.0923	0.022
Orthometric Height:	3480.2563	0.033
Geoid Height:	-64.164	

CONTROL MARK DATA

NAME OF MARK: 17132840 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

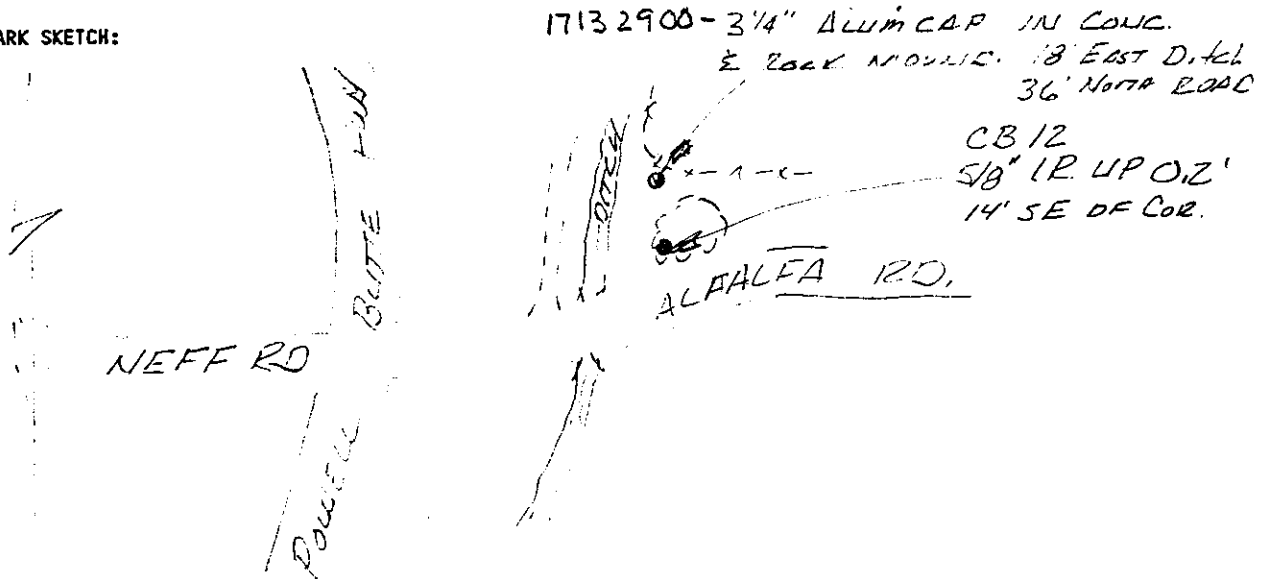
GEODITIC AND MAPPING COORDINATES

MARK: <u>17132840</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'22.467069"</u>	ONE
Longitude:	<u>121°11'00.015136"</u>	SIGMA
Northing:	<u>391165.9807</u>	ERROR
Easting:	<u>3326285.2237</u>	
Convergence:	<u>+0°04'10.3959"</u>	
Scale Factor:	<u>1.000160788979</u>	
Ellipsoid Height:	<u>3373.1292</u>	<u>0.027</u>
Orthometric Height:	<u>3437.3649</u>	<u>0.036</u>
Geoid Height:	<u>-64.2358</u>	

CONTROL MARK DATA

NAME OF MARK: 17132900 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/14/88 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 927

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

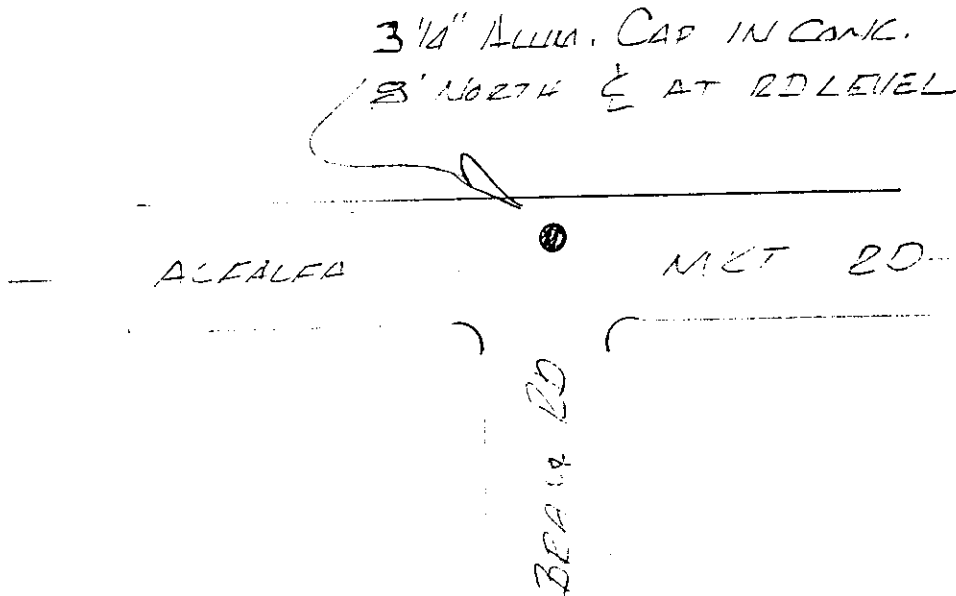
GEODITIC AND MAPPING COORDINATES

MARK: <u>17132900</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°03'56.358875"</u>	ONE SIGMA ERROR
Longitude:	<u>121°12'12.513892"</u>	
Northing:	<u>388515.9908</u>	<u>0.039</u>
Easting:	<u>3320994.1031</u>	<u>0.024</u>
Convergence:	<u>+0°03'19.9415"</u>	
Scale Factor:	<u>1.000160503312</u>	
Ellipsoid Height:	<u>3474.4801</u>	<u>0.036</u>
Orthometric Height:	<u>3538.7194</u>	<u>0.036</u>
Geoid Height:	<u>-64.2393</u>	

CONTROL MARK DATA

NAME OF MARK: 17132904 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 921

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN: W	121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN: N	43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

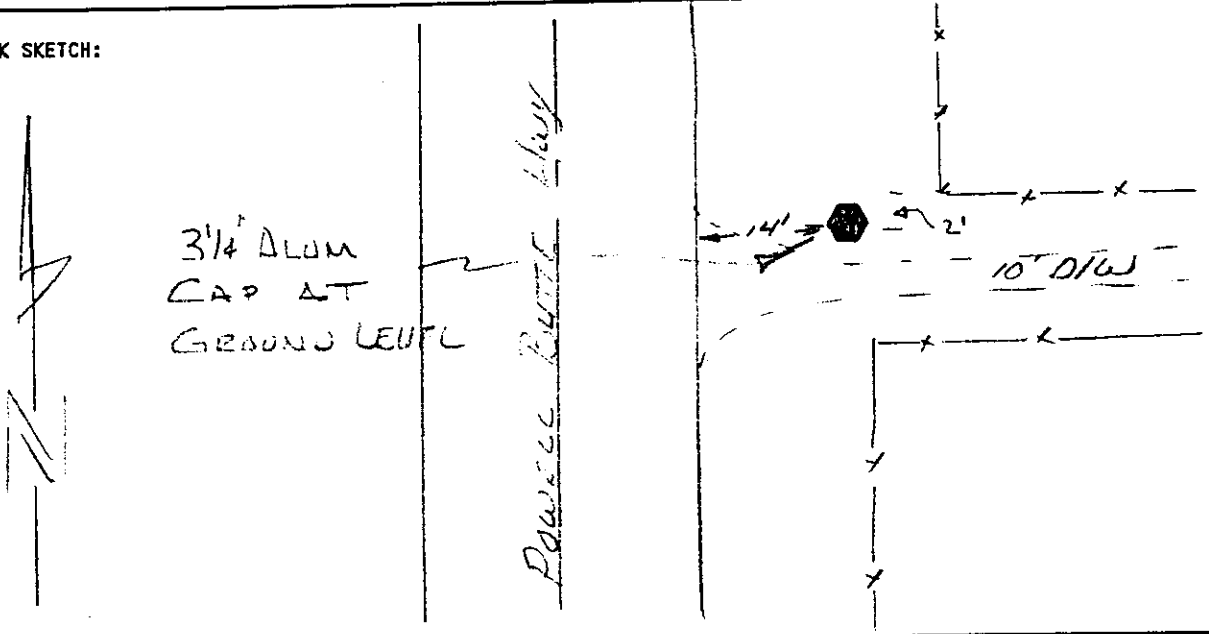
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>17132904</u>	HORIZONTAL ORDER:	FIRST
Latitude:	44°03'56.385277"	ONE	
Longitude:	121°11'36.282510"	SIGMA	
Northing:	388521.3912	ERROR	
Easting:	3323639.9511	0.017	
Convergence:	+0°03'45.1399"	0.018	
Scale Factor:	1.000160638170		
Ellipsoid Height:	3434.5716	0.028	
Orthometric Height:	3498.7891	0.038	
Geoid Height:	-64.2175		

CONTROL MARK DATA

NAME OF MARK: 17132940 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 07/19/91 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1067

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

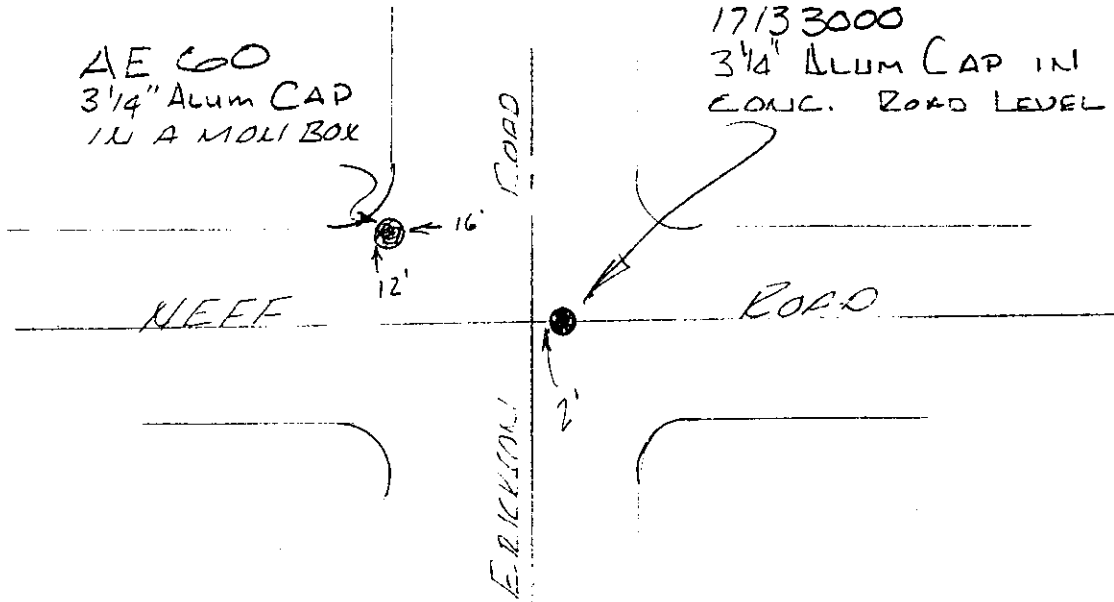
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132940</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'22.405914"	ONE SIGMA ERROR
Longitude:	121°12'12.466197"	
Northing:	391154.0112	0.014
Easting:	3320995.0284	0.012
Convergence:	+0°03'20.0008"	
Scale Factor:	1.000160503356	
Ellipsoid Height:	3418.2485	0.023
Orthometric Height:	3482.5345	0.033
Geoid Height:	-64.286	

CONTROL MARK DATA

NAME OF MARK: 17133000 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 923

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

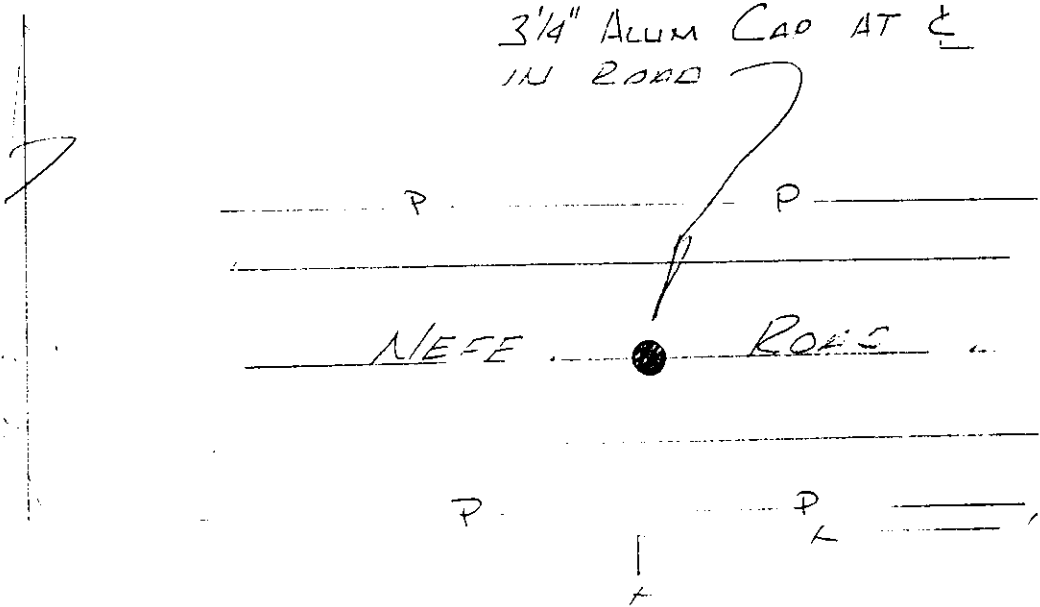
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17133000</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	44°03'56.454799"	ONE SIGMA ERROR
Longitude:	121°13'24.300684"	
Northing:	388521.2588	0.023
Easting:	3315751.7581	0.034
Convergence:	+0°02'30.0151"	
Scale Factor:	1.000160283335	
Ellipsoid Height:	3497.7821	0.039
Orthometric Height:	3562.065	0.039
Geoid Height:	-64.2829	

CONTROL MARK DATA

NAME OF MARK: 17133004 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 922

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

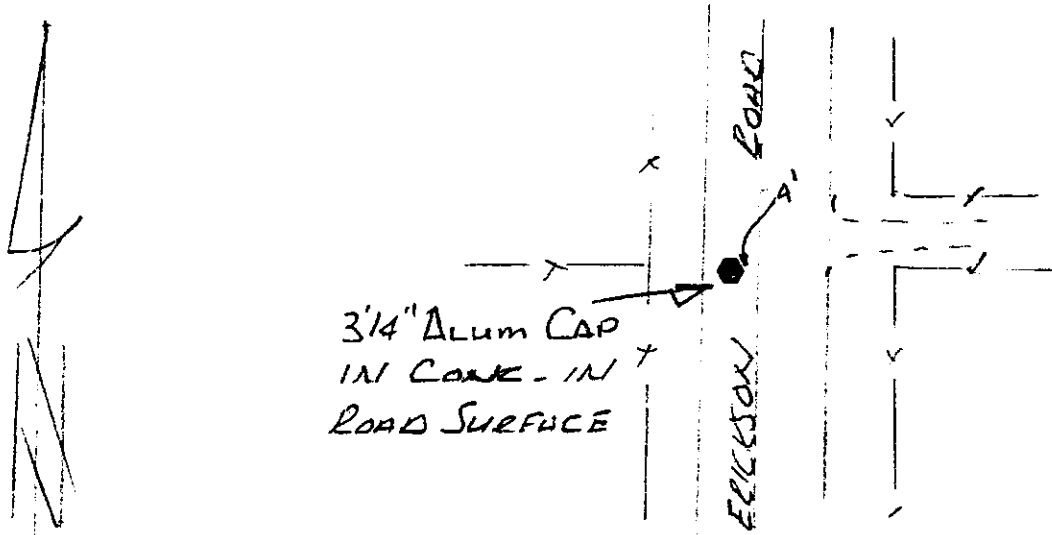
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133004</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°03'56.408396"	ONE SIGMA ERROR
Longitude:	121°12'48.677995"	
Northing:	388518.6073	0.013
Easting:	3318353.1611	0.011
Convergence:	+0°02'54.7901"	
Scale Factor:	1.000160384649	
Ellipsoid Height:	3465.6856	0.021
Orthometric Height:	3529.9467	0.033
Geoid Height:	-64.2611	

CONTROL MARK DATA

NAME OF MARK: 17133040 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 929

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

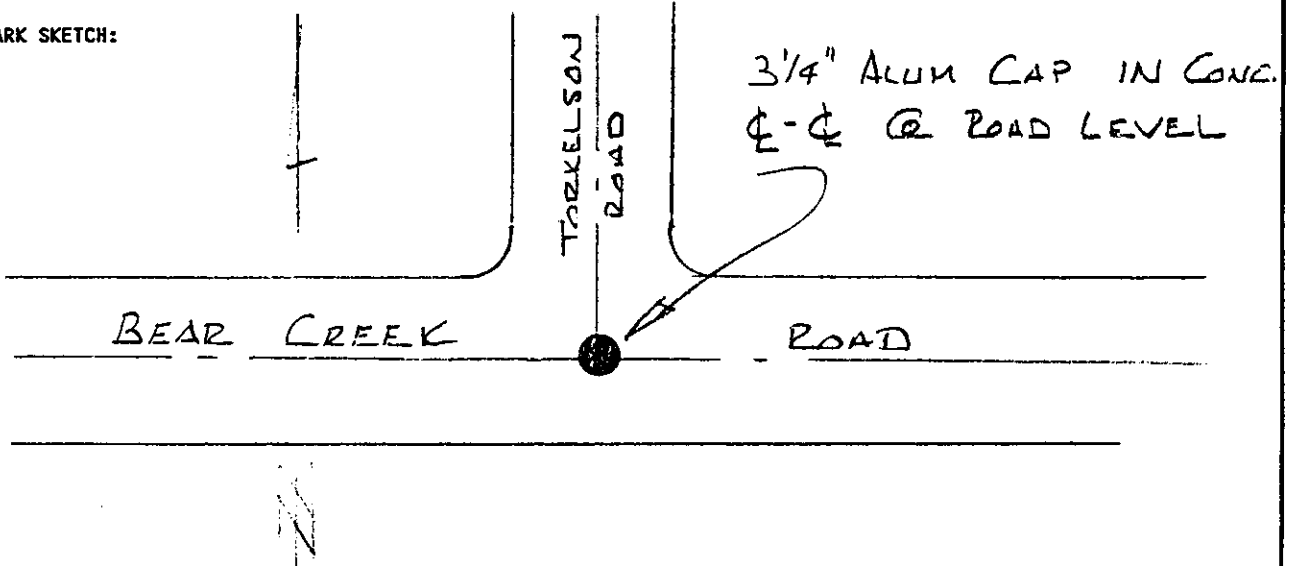
MARK: 17133040 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.438291"	ONE
Longitude:	121°13'24.350574"	SIGMA
Northing:	391152.8371	ERROR
Easting:	3315746.2012	0.011
Convergence:	+0°02'30.0000"	0.009
Scale Factor:	1.000160283135	
Ellipsoid Height:	3466.5481	0.019
Orthometric Height:	3530.8809	0.031
Geoid Height:	-64.3329	

CONTROL MARK DATA

NAME OF MARK: 17133100 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 918

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

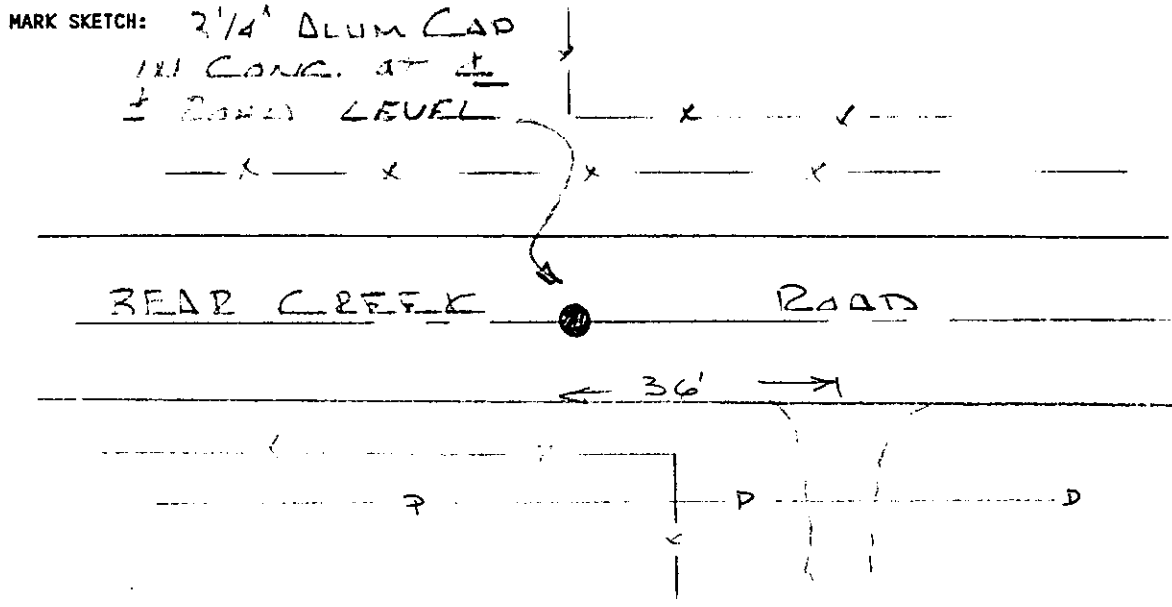
GEODITIC AND MAPPING COORDINATES

MARK: 17133100 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.198330"	ONE
Longitude:	121°13'24.607762"	SIGMA
Northing:	383228.7718	ERROR
Easting:	3315733.1764	0.012
Convergence:	+0°02'29.7624"	0.009
Scale Factor:	1.000160282668	
Ellipsoid Height:	3560.3938	0.018
Orthometric Height:	3624.5702	0.031
Geoid Height:	-64.1764	

CONTROL MARK DATA

NAME OF MARK: 17133104 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 932



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

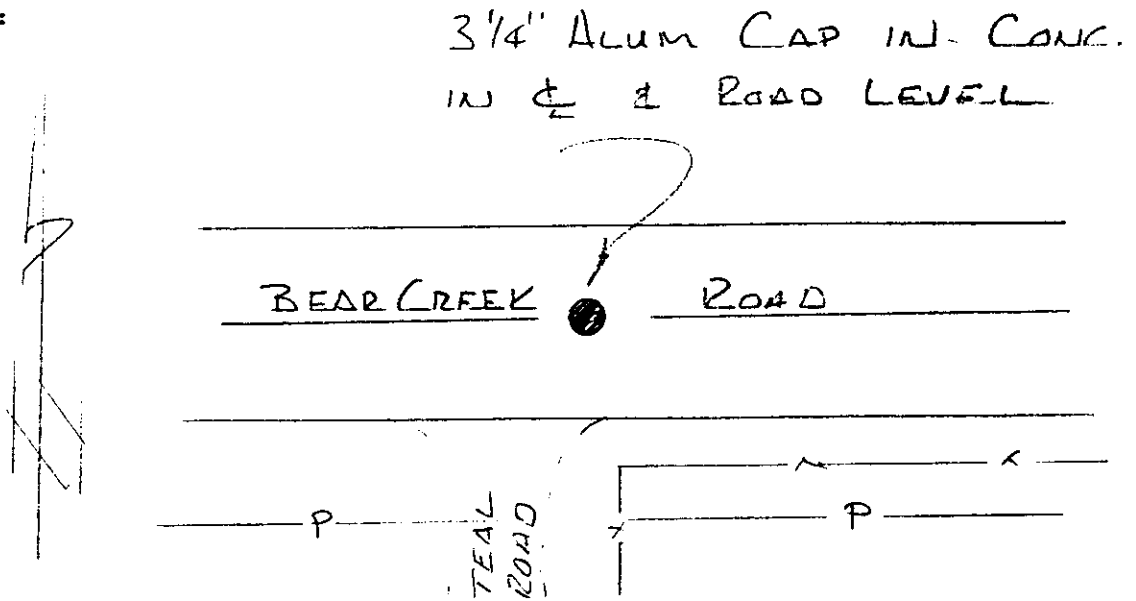
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.175388"	ONE SIGMA ERROR
Longitude:	121°12'48.566081"	
Northing:	383228.5197	0.016
Easting:	3318365.8181	0.011
Convergence:	+0°02'54.8221"	
Scale Factor:	1.000160385181	
Ellipsoid Height:	3525.4798	0.023
Orthometric Height:	3589.6377	0.034
Geoid Height:	-64.1579	

CONTROL MARK DATA

NAME OF MARK: 17133200 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 917

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

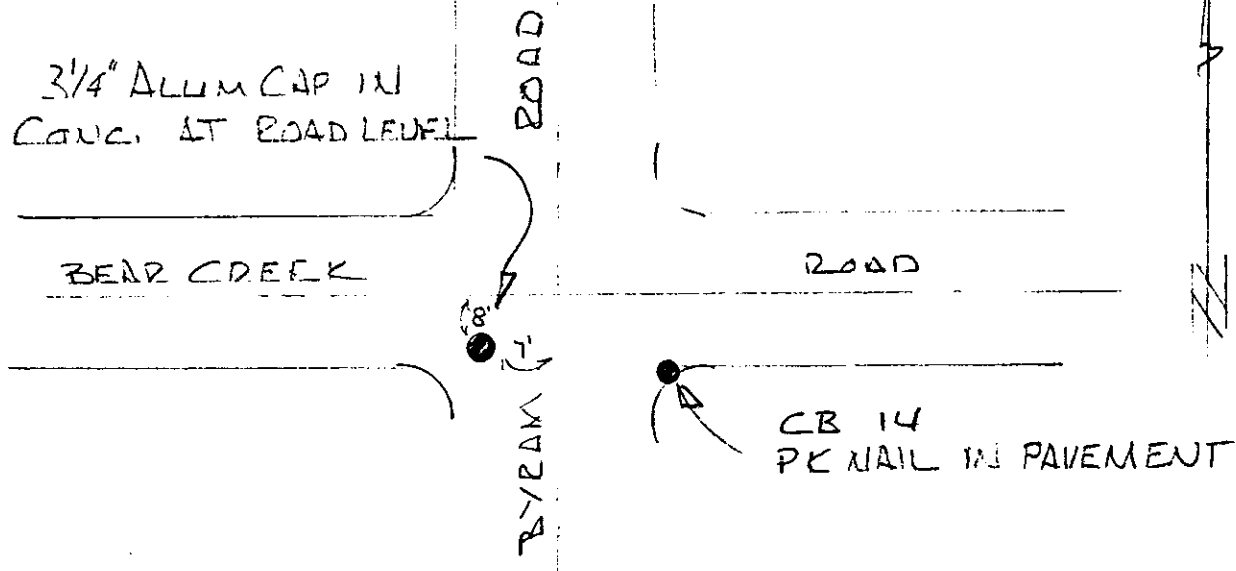
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133200</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.151849"	ONE SIGMA ERROR
Longitude:	121°12'12.387355"	
Northing:	383228.5367	0.015
Easting:	3321008.4707	0.012
Convergence:	+0°03'19.9772"	
Scale Factor:	1.000160504003	
Ellipsoid Height:	3505.2685	0.023
Orthometric Height:	3569.4079	0.034
Geoid Height:	-64.1394	

CONTROL MARK DATA

NAME OF MARK: 17133204 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 916

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

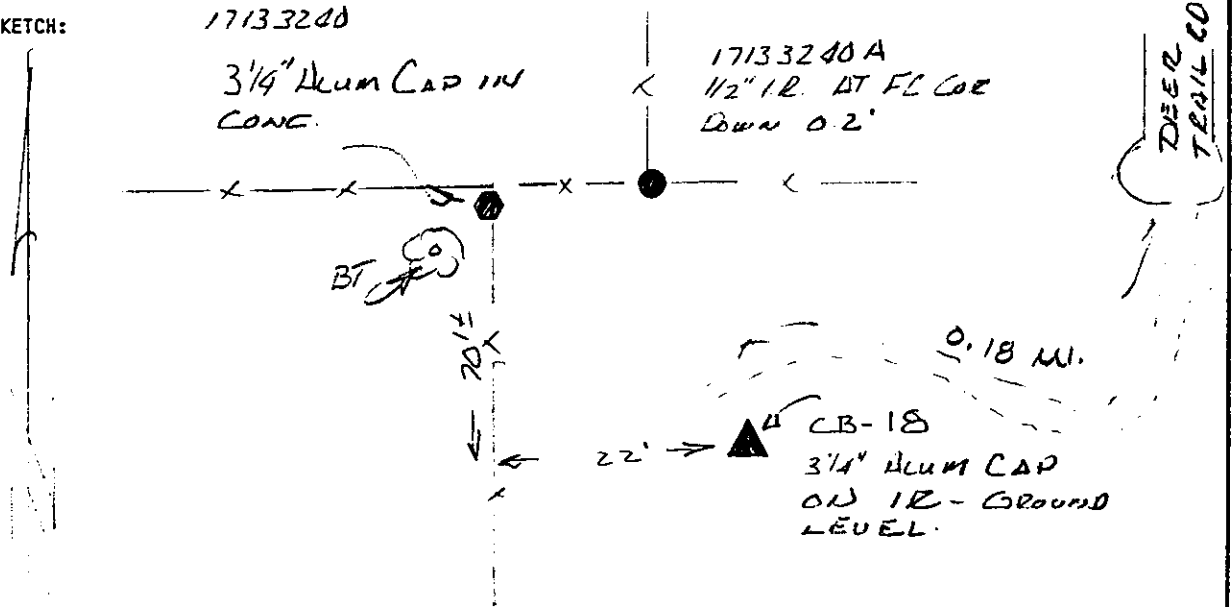
MARK: 17133204 HORIZONTAL ORDER: SECOND

	ONE	
	SIGMA	
	ERROR	
Latitude:	44°03'04.251404"	
Longitude:	121°11'36.194942"	
Northing:	383241.3437	0.018
Easting:	3323652.1099	0.045
Convergence:	+0°03'45.1420"	
Scale Factor:	1.000160638828	
Ellipsoid Height:	3484.2266	0.041
Orthometric Height:	3548.3475	0.041
Geoid Height:	-64.1208	

CONTROL MARK DATA

NAME OF MARK: 17133240 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 931

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

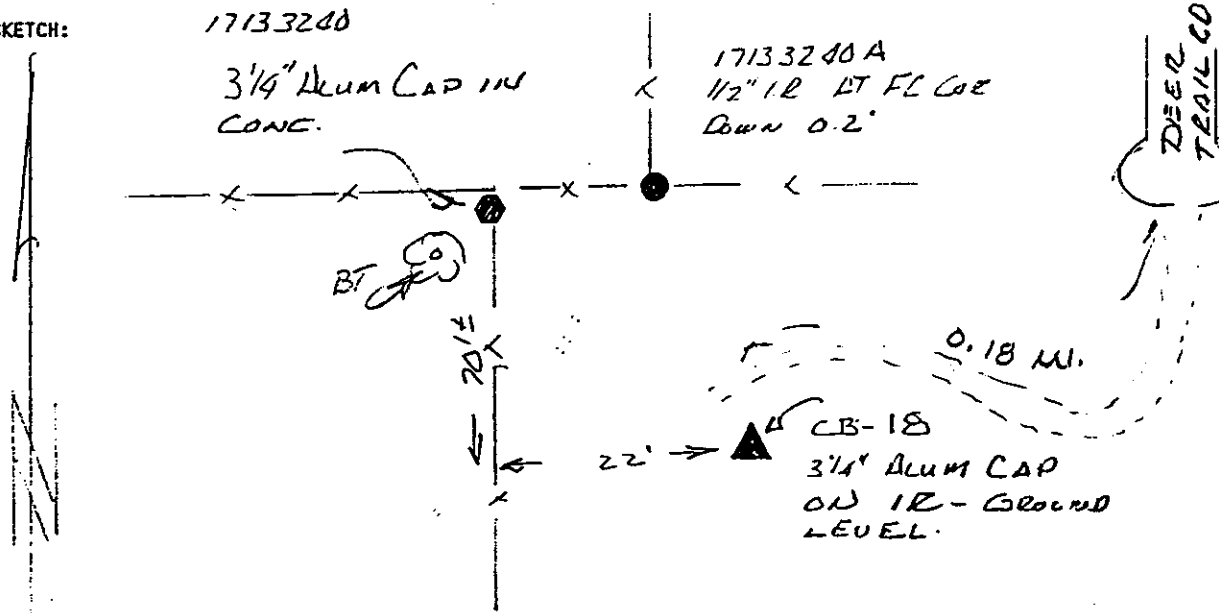
MARK: 17133240 HORIZONTAL ORDER: SECOND

Latitude:	44°03'30.227940"	ONE SIGMA ERROR
Longitude:	121°12'12.447912"	
Northing:	385869.485	0.042
Easting:	3321001.4872	0.021
Convergence:	+0°03'19.9613"	
Scale Factor:	1.000160503667	
Ellipsoid Height:	3488.2015	0.042
Orthometric Height:	3552.391	0.042
Geoid Height:	-64.1895	

CONTROL MARK DATA

NAME OF MARK: 17133240a COUNTY: DESCHUTES
 MARK SET BY: PE ???? HUDSON STATE: OREGON
 DATE OF MARK: 06/19/63 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3226

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

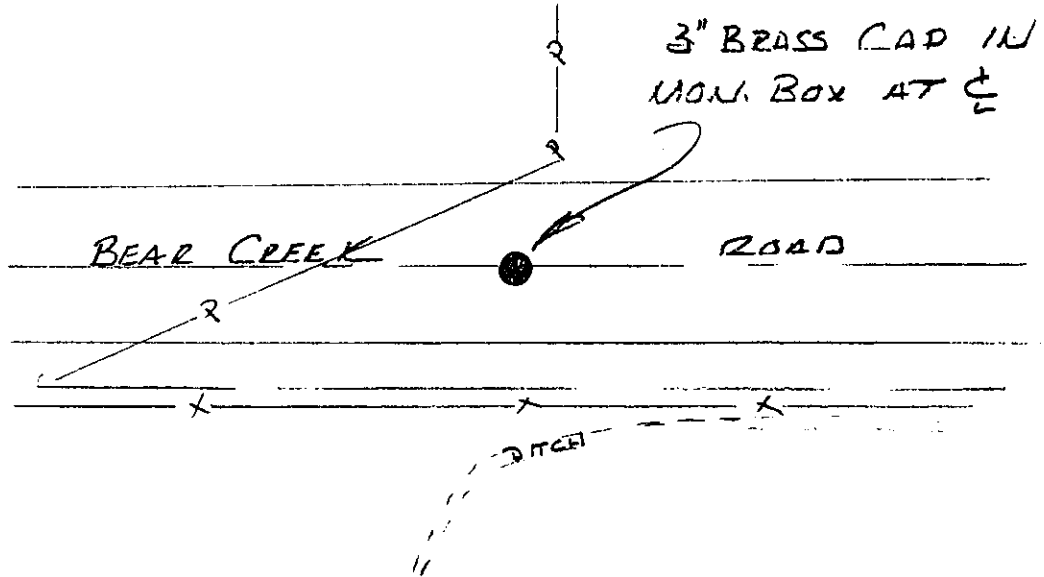
GEODITIC AND MAPPING COORDINATES

MARK: <u>17133240a</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°03'30.262334"</u>	ONE SIGMA ERROR
Longitude:	<u>121°12'12.305339"</u>	
Northing:	<u>385872.9785</u>	<u>0.043</u>
Easting:	<u>3321011.8967</u>	<u>0.017</u>
Convergence:	<u>+0°03'20.0604"</u>	
Scale Factor:	<u>1.000160504167</u>	
Ellipsoid Height:	<u>3488.0116</u>	<u>0.042</u>
Orthometric Height:	<u>3552.2011</u>	<u>0.042</u>
Geoid Height:	<u>-64.1895</u>	

CONTROL MARK DATA

NAME OF MARK: 17133300 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 02/19/92 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1116

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

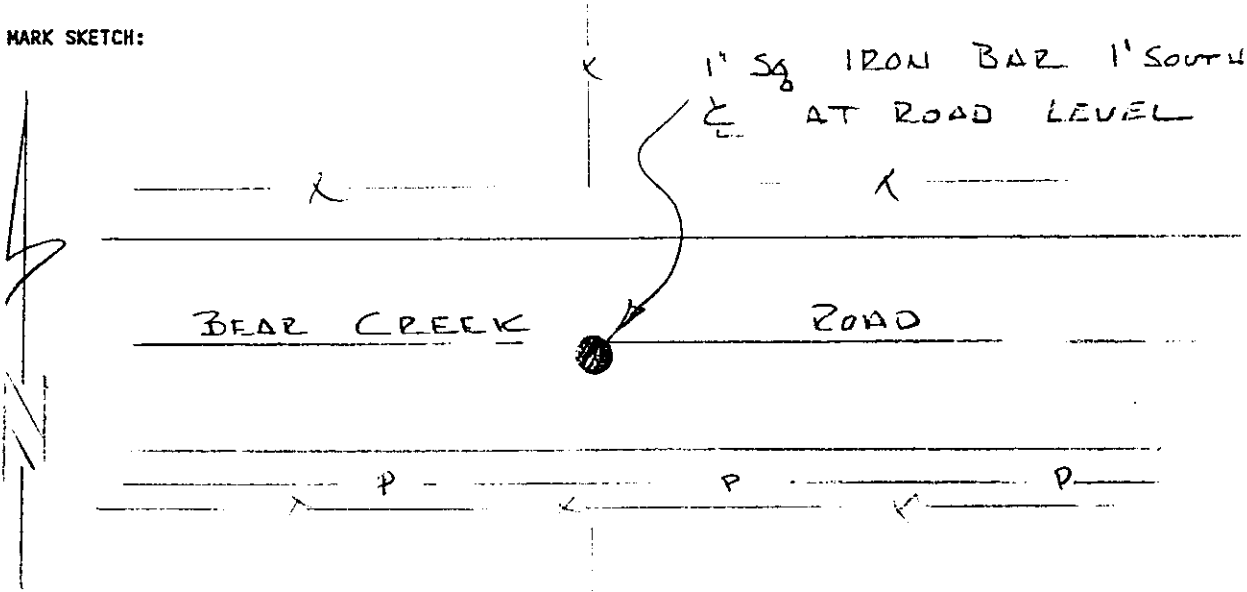
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17133300</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°03'04.349272"	ONE SIGMA ERROR
Longitude:	121°11'00.002865"	
Northing:	383254.3025	0.014
Easting:	3326295.7225	0.013
Convergence:	+0°04'10.3065"	
Scale Factor:	1.000160789614	
Ellipsoid Height:	3509.2531	0.024
Orthometric Height:	3573.3554	0.035
Geoid Height:	-64.1022	

CONTROL MARK DATA

NAME OF MARK: 17133304 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

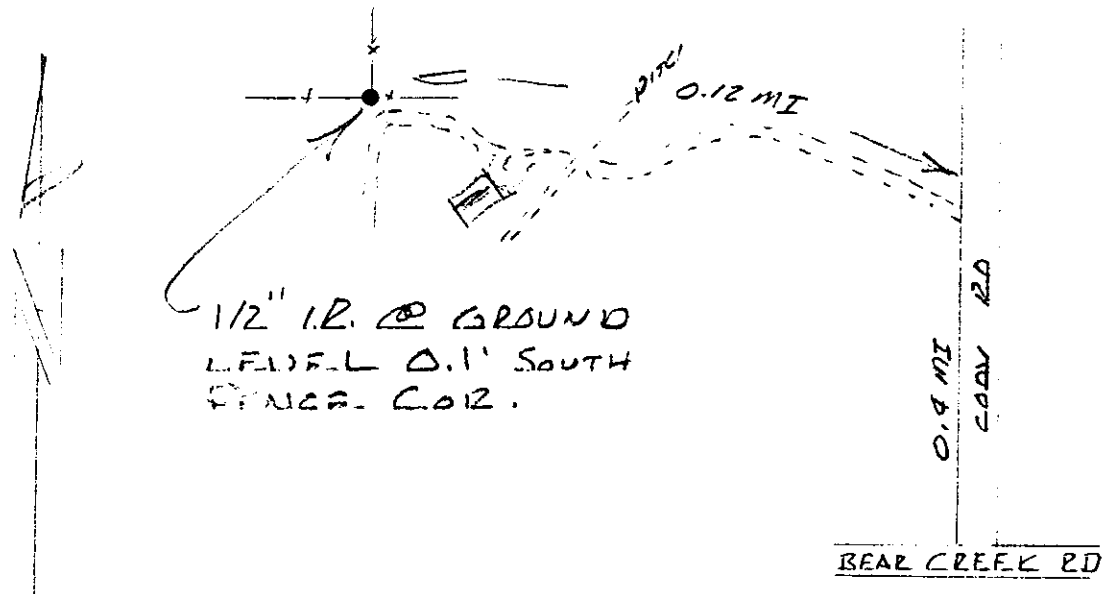
MARK: 17133304 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.363590"	ONE
Longitude:	121°10'23.925678"	SIGMA
		ERROR
Northing:	383259.1108	0.014
Easting:	3328930.9519	0.014
Convergence:	+0°04'35.3911"	
Scale Factor:	1.000160955807	
Ellipsoid Height:	3488.74	0.026
Orthometric Height:	3552.8172	0.036
Geoid Height:	-64.0771	

CONTROL MARK DATA

NAME OF MARK: 17133340 COUNTY: DESCHUTES
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

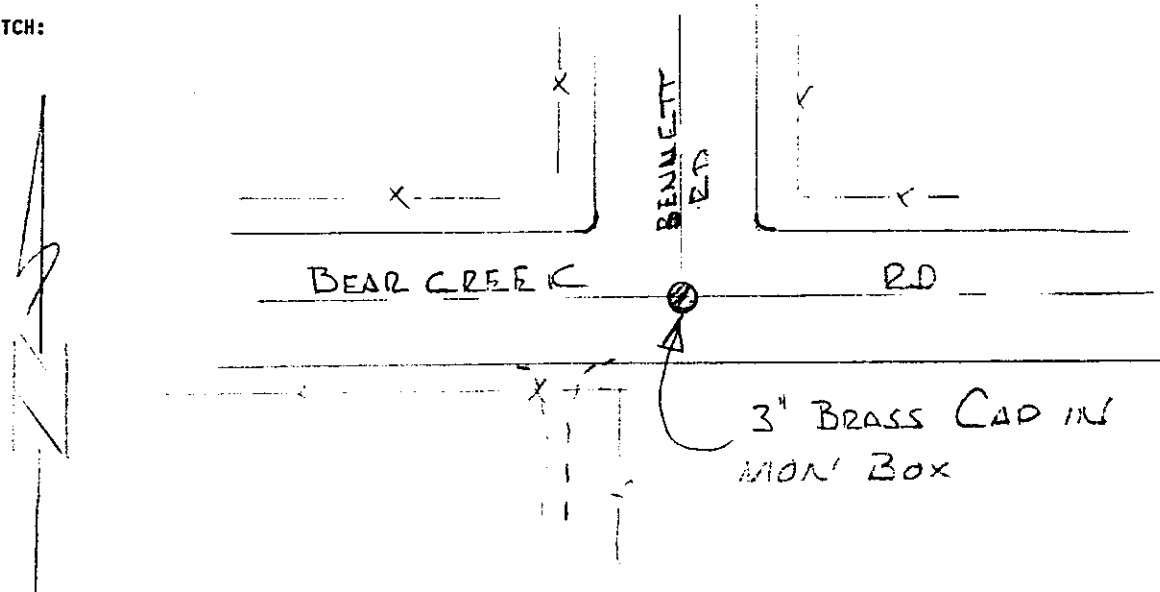
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'30.323479"	ONE SIGMA ERROR
Longitude:	121°10'59.994933"	
Northing:	385884.9373	0.014
Easting:	3326293.1093	0.014
Convergence:	+0°04'10.3446"	
Scale Factor:	1.000160789455	
Ellipsoid Height:	3467.034	0.025
Orthometric Height:	3531.1797	0.035
Geoid Height:	-64.1457	

CONTROL MARK DATA

NAME OF MARK: 17133400 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 07/25/91 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1080

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

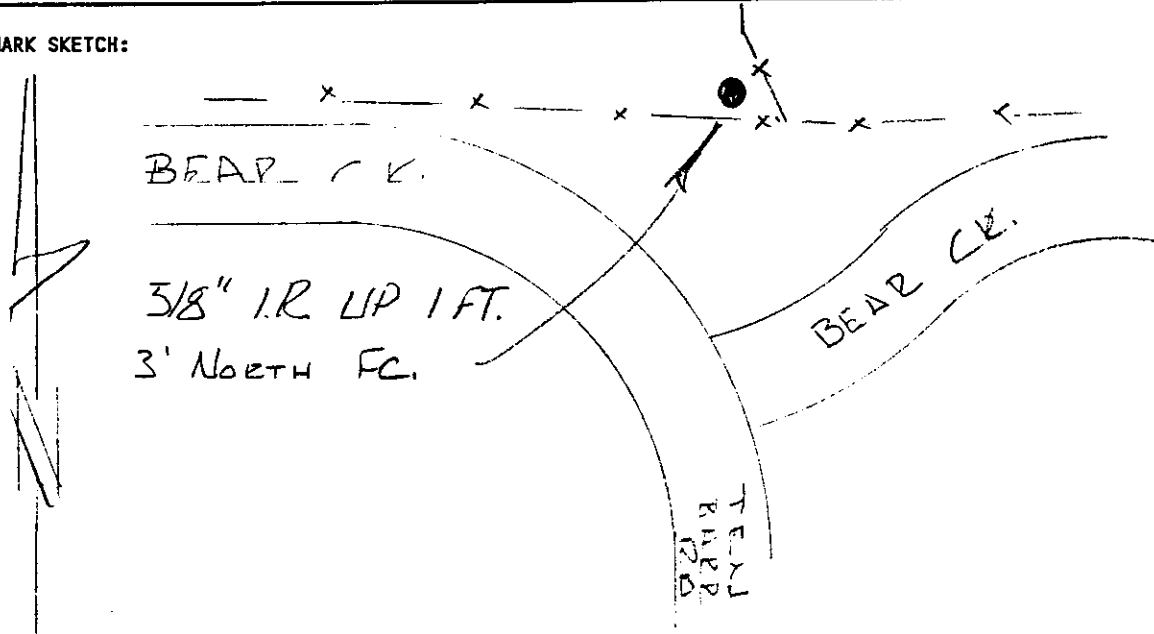
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133400</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude: <u>44°03'04.382507"</u>	ONE SIGMA ERROR
Longitude: <u>121°09'47.856087"</u>	
Northing: <u>383264.7045</u>	0.014
Easting: <u>3331565.6255</u>	0.015
Convergence: <u>+0°05'00.4704"</u>	
Scale Factor: <u>1.000161137820</u>	
Ellipsoid Height: <u>3500.3743</u>	0.026
Orthometric Height: <u>3564.4297</u>	0.036
Geoid Height: <u>-64.0553</u>	

CONTROL MARK DATA

NAME OF MARK: 17133404 COUNTY: DESCHUTES
 MARK SET BY: LS 0687 RICHARD HANKINS STATE: OREGON
 DATE OF MARK: 09/26/69 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4212

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

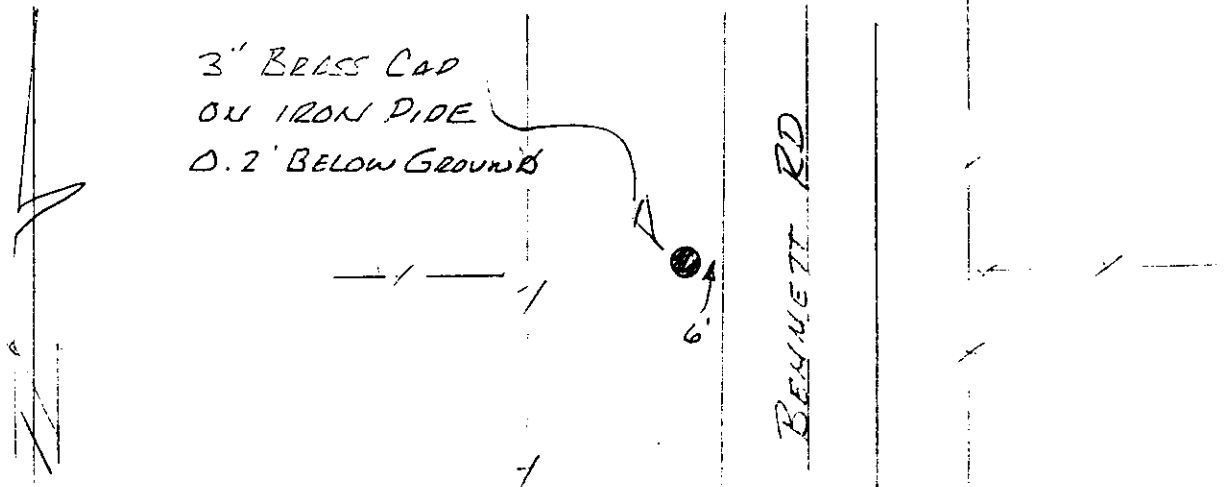
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.371243"	ONE SIGMA ERROR
Longitude:	121°09'11.687830"	
Northing:	383267.5733	0.015
Easting:	3334207.5105	0.016
Convergence:	+0°05'25.6182"	
Scale Factor:	1.000161336250	
Ellipsoid Height:	3472.5382	0.027
Orthometric Height:	3536.5717	0.037
Geoid Height:	-64.0335	

CONTROL MARK DATA

NAME OF MARK: 17133440 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 7/19/91 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1064

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

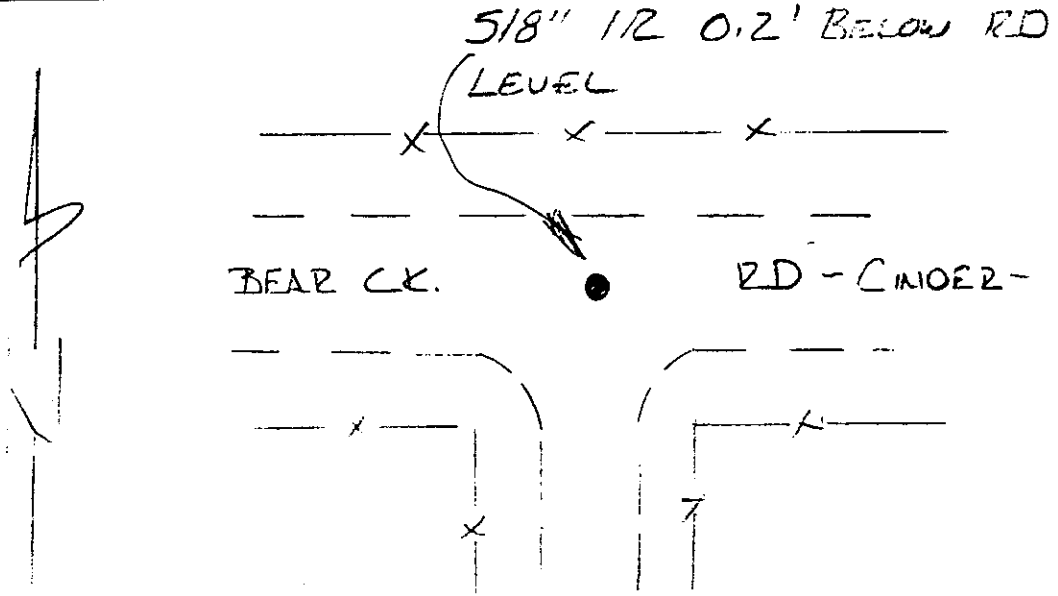
GEOIDIC AND MAPPING COORDINATES

MARK: <u>17133440</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°03'30.357753"</u>	ONE SIGMA ERROR
Longitude:	<u>121°09'47.721613"</u>	
Northing:	<u>385895.4581</u>	<u>0.011</u>
Easting:	<u>3331571.6143</u>	<u>0.012</u>
Convergence:	<u>+0°05'00.6030"</u>	
Scale Factor:	<u>1.000161138249</u>	
Ellipsoid Height:	<u>3450.3042</u>	<u>0.021</u>
Orthometric Height:	<u>3514.403</u>	<u>0.033</u>
Geoid Height:	<u>-64.0987</u>	

CONTROL MARK DATA

NAME OF MARK: 17133500 COUNTY: DESCHUTES
 MARK SET BY: LS 0687 RICHARD HANKINS STATE: OREGON
 DATE OF MARK: 09/26/69 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4212

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

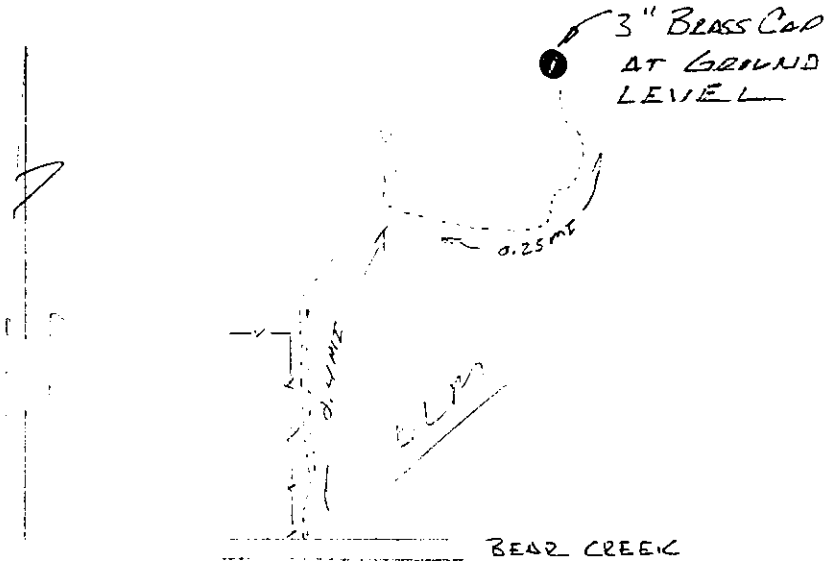
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.351778"	ONE SIGMA ERROR
Longitude:	121°08'35.548275"	
Northing:	383269.9299	0.018
Easting:	3336847.3007	0.018
Convergence:	+0°05'50.7462"	
Scale Factor:	1.000161550444	
Ellipsoid Height:	3432.8454	0.033
Orthometric Height:	3496.8571	0.041
Geoid Height:	-64.0117	

CONTROL MARK DATA

NAME OF MARK: 17133540 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 02/19/92 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1115

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

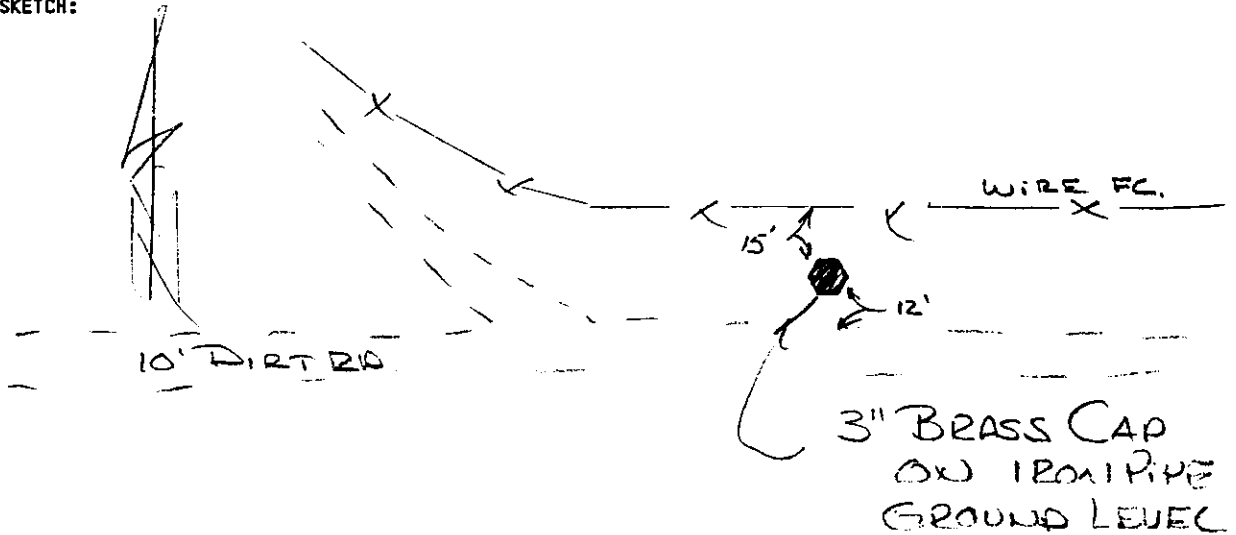
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'30.435367"	ONE SIGMA ERROR
Longitude:	121°08'35.073786"	
Northing:	385911.7011	0.017
Easting:	3336877.4626	0.016
Convergence:	+0°05'51.1220"	
Scale Factor:	1.000161552981	
Ellipsoid Height:	3398.143	0.030
Orthometric Height:	3462.1948	0.039
Geoid Height:	-64.0518	

CONTROL MARK DATA

NAME OF MARK: 17141800 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1192

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

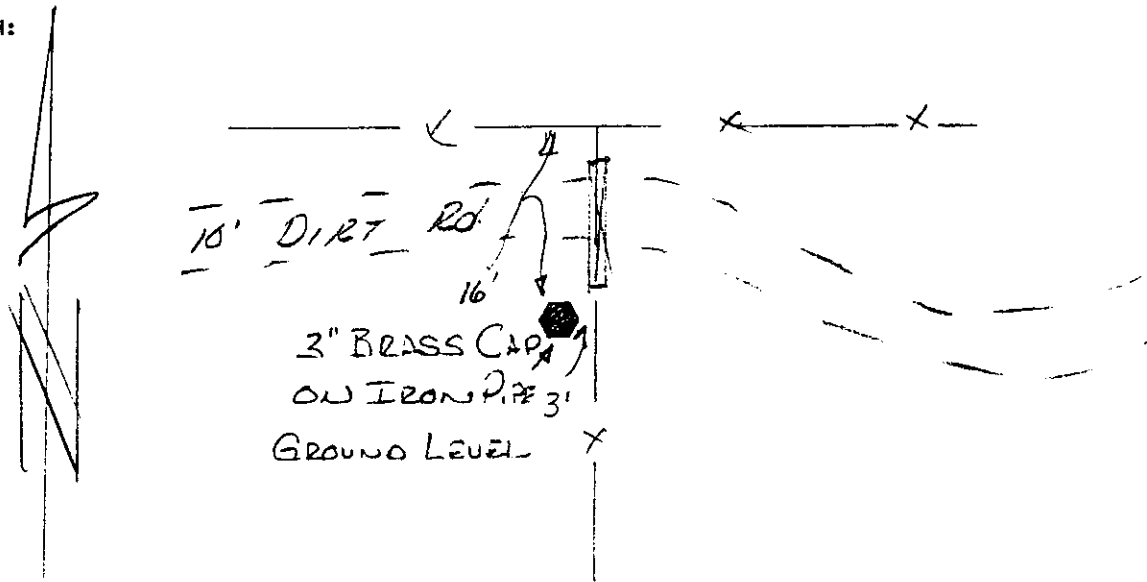
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>17141800</u>	HORIZONTAL ORDER:	<u>FIRST</u>
Latitude:	44°05'40.763126"	ONE SIGMA ERROR	
Longitude:	121°06'10.606878"		
Northing:	399131.7103	0.022	
Easting:	3347399.7473	0.019	
Convergence:	+0°07'31.8783"		
Scale Factor:	1.000162565622		
Ellipsoid Height:	3276.575	0.044	
Orthometric Height:	3340.622	0.051	
Geoid Height:	-64.047		

CONTROL MARK DATA

NAME OF MARK: 17143100 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1190

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°09'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

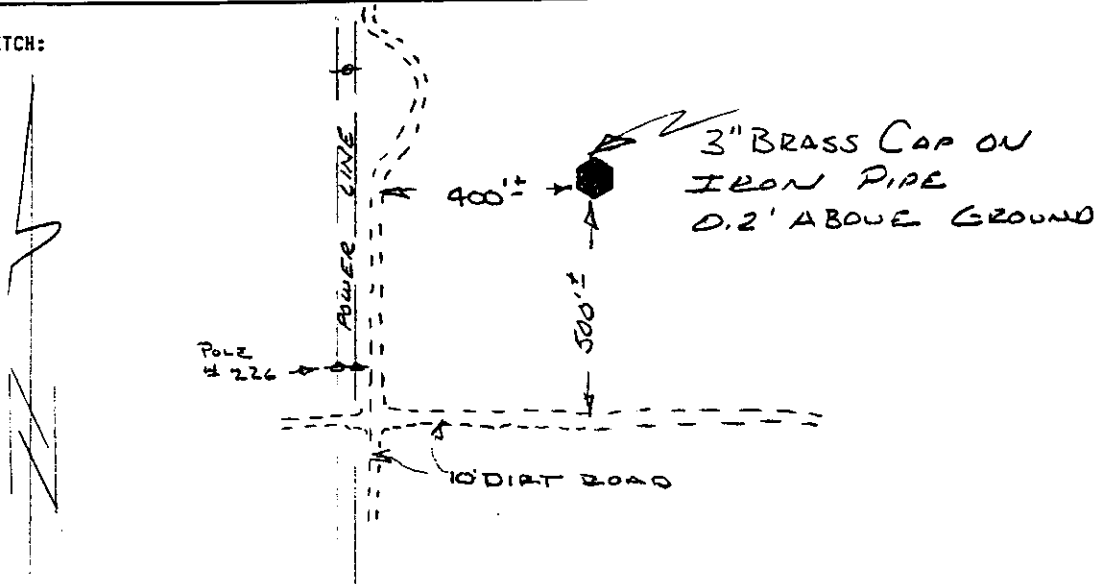
GEODITIC AND MAPPING COORDINATES

<u>MARK: 17143100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.235875"	ONE SIGMA ERROR
Longitude:	121°06'11.072639"	
Northing:	383278.7065	0.026
Easting:	3347400.4426	0.027
Convergence:	+0°07'31.2004"	
Scale Factor:	1.000162565723	
Ellipsoid Height:	3379.9701	0.057
Orthometric Height:	3443.9044	0.062
Geoid Height:	-63.9343	

CONTROL MARK DATA

NAME OF MARK: 18110100 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3360

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

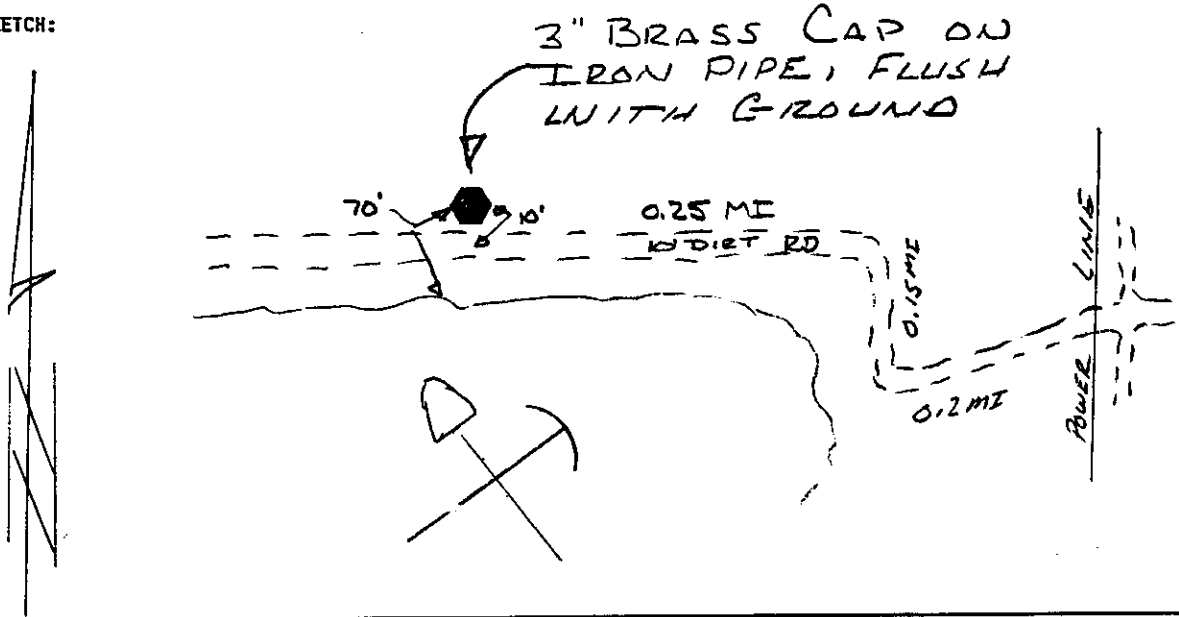
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 18110100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'13.302176"	ONE SIGMA ERROR
Longitude:	121°21'49.490804"	
Northing:	378078.6908	0.007
Easting:	3278849.3156	0.007
Convergence:	-0°03'21.2318"	
Scale Factor:	1.000160510852	
Ellipsoid Height:	3700.6412	0.017
Orthometric Height:	3764.7662	0.021
Geoid Height:	-64.125	

CONTROL MARK DATA

NAME OF MARK: 18110204 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 18S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1037

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

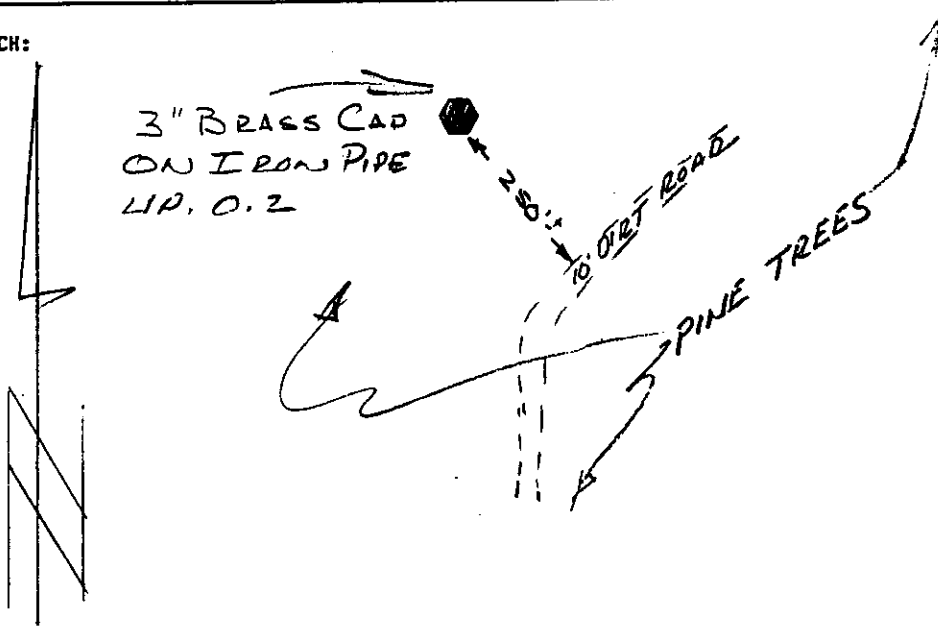
MARK: 18110204 HORIZONTAL ORDER: FIRST

Latitude:	44°02'12.743529"	ONE SIGMA ERROR
Longitude:	121°22'25.893528"	
Northing:	378024.8699	0.008
Easting:	3276189.6092	0.009
Convergence:	-0°03'46.5356"	
Scale Factor:	1.000160647409	
Ellipsoid Height:	3788.9759	0.018
Orthometric Height:	3853.0714	0.022
Geoid Height:	-64.0955	

CONTROL MARK DATA

NAME OF MARK: 18111100 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (R L M) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1038

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

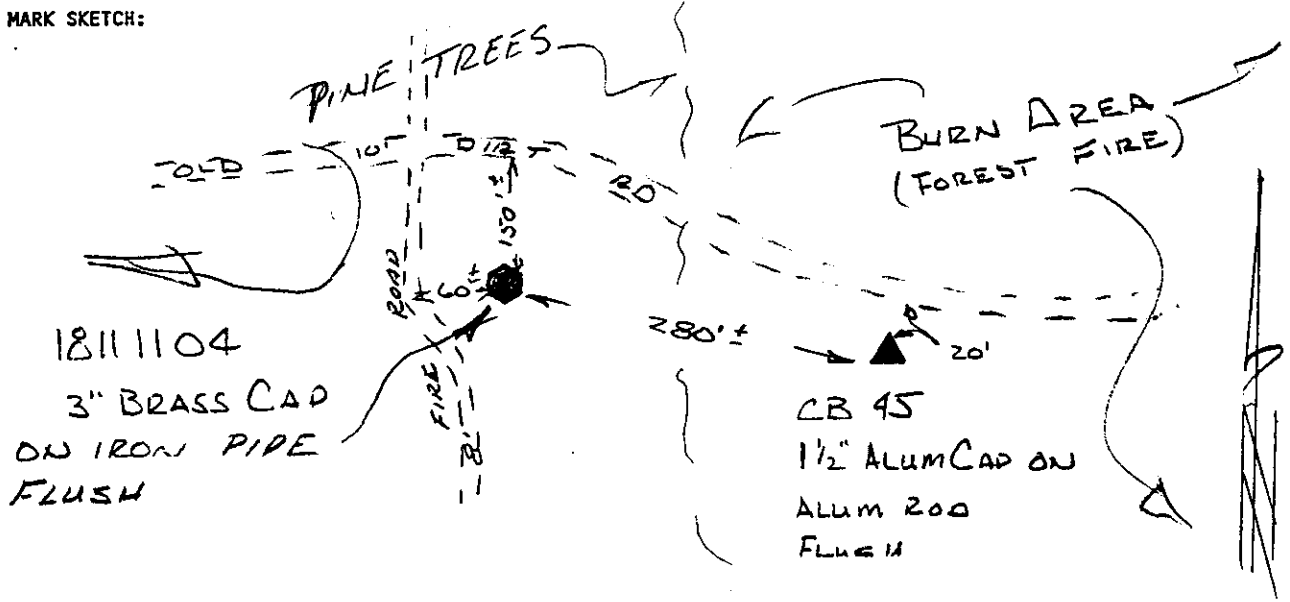
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18111100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'20.723886"	ONE SIGMA ERROR
Longitude:	121°23'02.846440"	
Northing:	372759.5445	0.017
Easting:	3273483.3187	0.013
Convergence:	-0°04'12.1566"	
Scale Factor:	1.000160802945	
Ellipsoid Height:	3939.0642	0.034
Orthometric Height:	4003.0148	0.036
Geoid Height:	-63.9506	

CONTROL MARK DATA

NAME OF MARK: 18111104 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (B L M) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

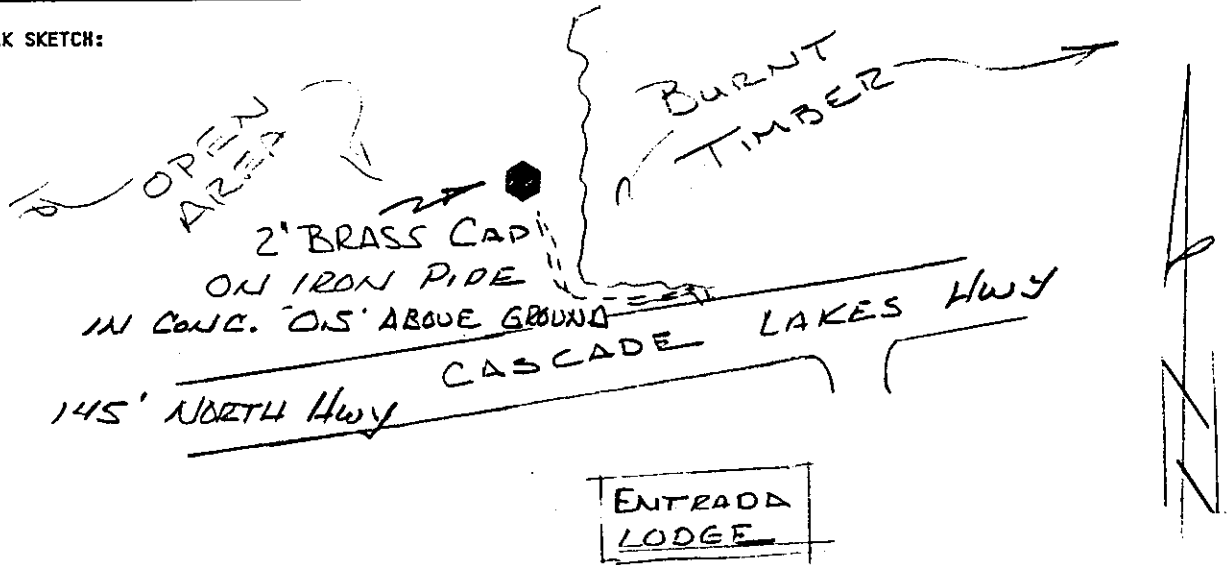
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 18111104</u>	HORIZONTAL ORDER: SECOND	
Latitude:	44°01'20.897575"	ONE SIGMA ERROR
Longitude:	121°22'26.536627"	
Northing:	372774.0538	0.016
Easting:	3276136.8456	0.016
Convergence:	-0°03'46.9235"	
Scale Factor:	1.000160650283	
Ellipsoid Height:	3909.0262	0.022
Orthometric Height:	3973.0092	0.023
Geoid Height:	-63.983	

CONTROL MARK DATA

NAME OF MARK: 18111200 COUNTY: DESCHUTES
MARK SET BY: LS 0654 NORMAN NEWTON STATE: OREGON
DATE OF MARK: 1970 COUNTRY: U.S.A.
LOCATION: SECTION 12 TOWNSHIP 18s. RANGE 11 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 3380

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

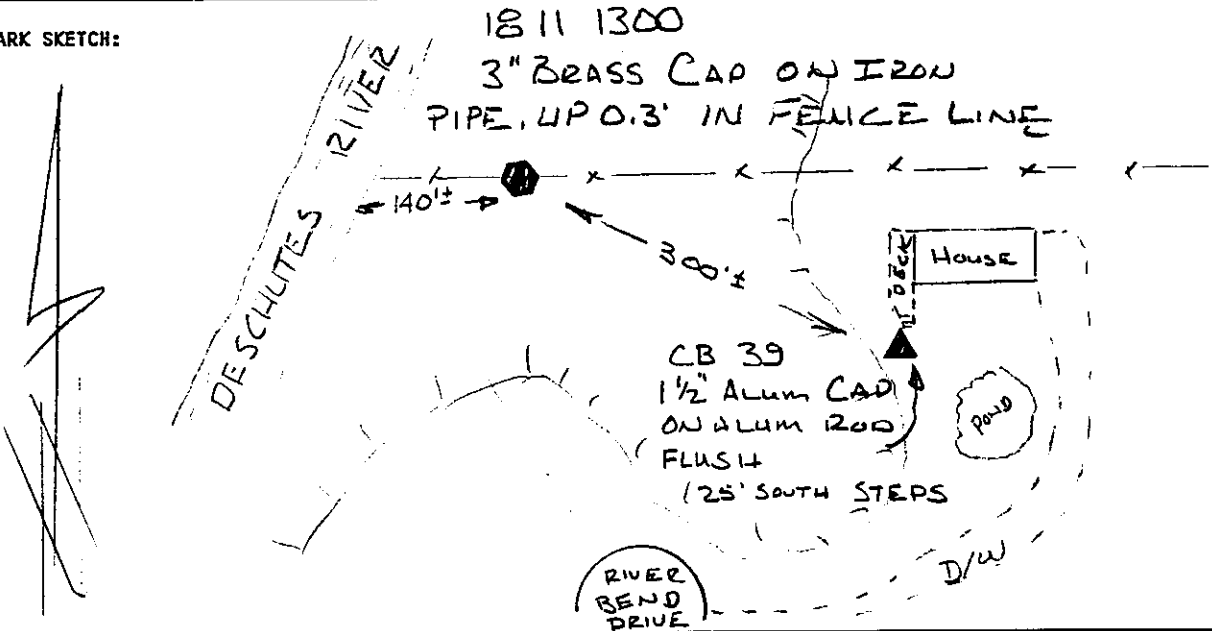
MARK: 18111200 HORIZONTAL ORDER: FIRST

Latitude:	44°01'21.074004"	ONE SIGMA ERROR
Longitude:	121°21'50.230946"	
Northing:	372789.1655	0.007
Easting:	3278790.0665	0.007
Convergence:	-0°03'21.6935"	
Scale Factor:	1.000160513719	
Ellipsoid Height:	3806.1556	0.015
Orthometric Height:	3870.1669	0.017
Geoid Height:	-64.0112	

CONTROL MARK DATA

NAME OF MARK: 18111300 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (B L M) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

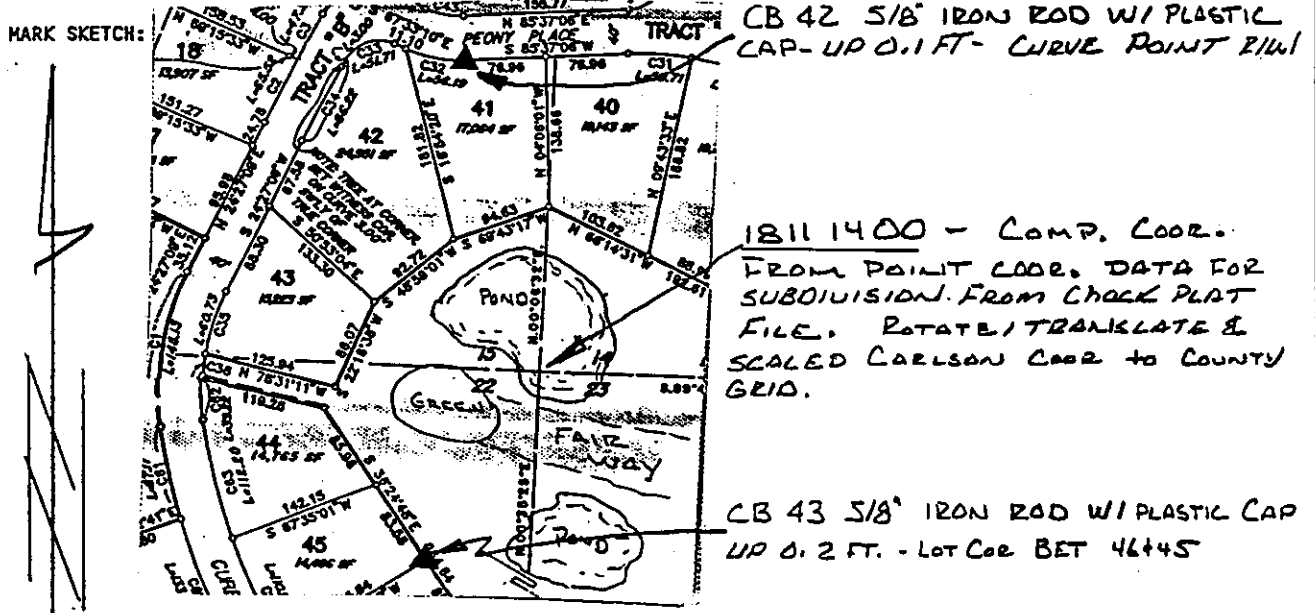
GEODETTIC AND MAPPING COORDINATES

MARK: 18111300 HORIZONTAL ORDER: SECOND

Latitude:	44°00'28.305870"	ONE
Longitude:	121°21'51.314233"	SIGMA
Northing:	367444.9921	ERROR
Easting:	3278705.6558	0.017
Convergence:	-0°03'22.3927"	0.016
Scale Factor:	1.000160517818	
Ellipsoid Height:	3759.9773	0.026
Orthometric Height:	3823.8709	0.029
Geoid Height:	-63.8936	

CONTROL MARK DATA

NAME OF MARK: 18111400 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (BLM) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: COMPUTED FROM SUBDIVISION COOR.



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

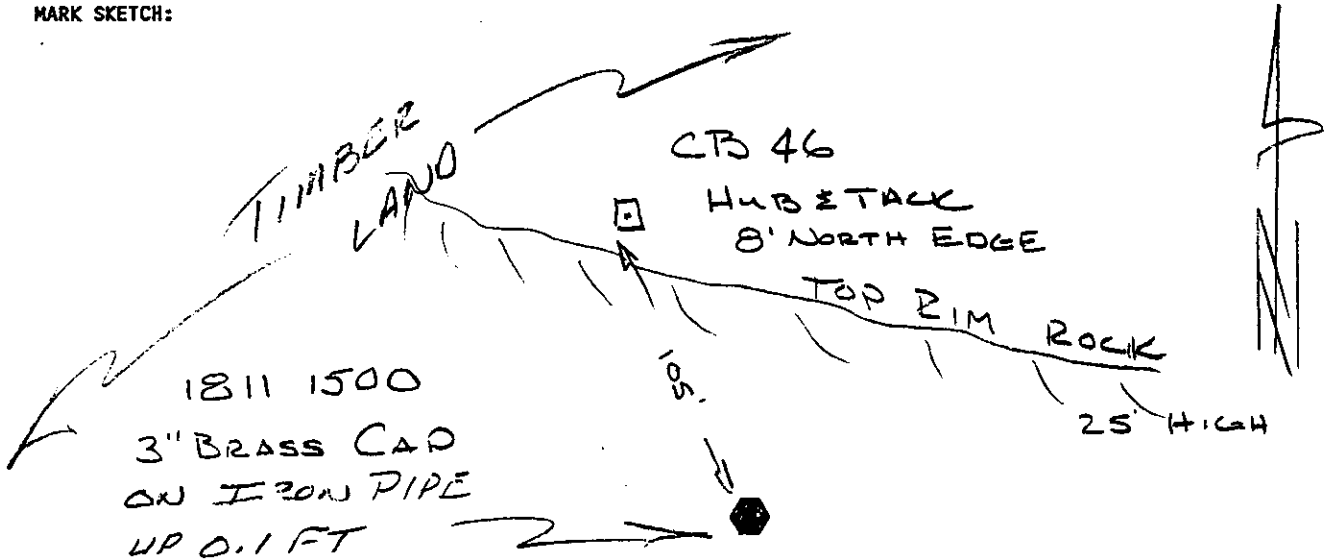
GEODETIC AND MAPPING COORDINATES

<u>MARK: 18111400</u>	HORIZONTAL ORDER: <u>THIRD</u>	
Latitude:	44°00'28.492286"	ONE SIGMA ERROR
Longitude:	121°23'03.432571"	
Northing:	367469.685	0.100
Easting:	3273434.008	0.100
Convergence:	-0°04'12.4977"	
Scale Factor:	1.000160805937	
Ellipsoid Height:		
Orthometric Height:		
Geoid Height:		

CONTROL MARK DATA

NAME OF MARK: 18111500 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (B-L-M) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

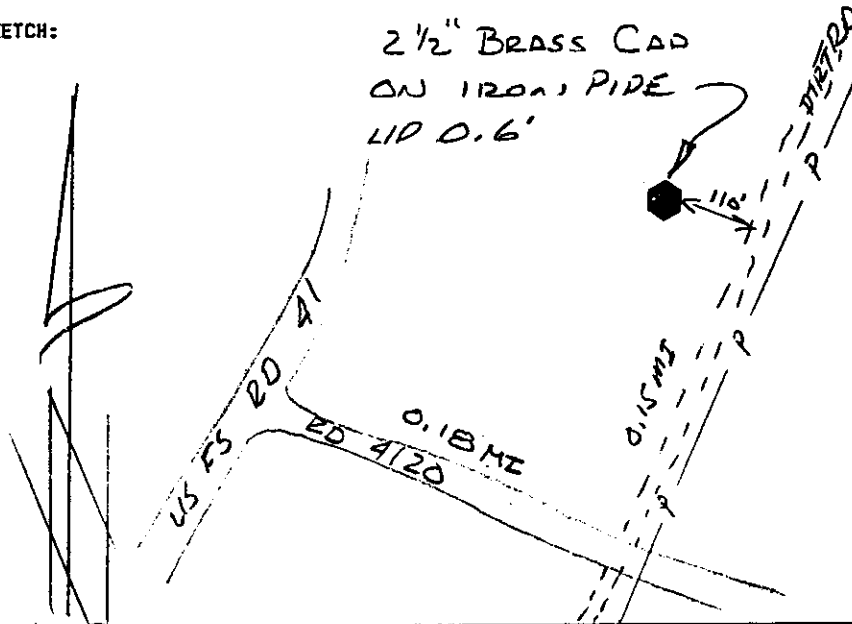
GEODETIC AND MAPPING COORDINATES

MARK: <u>18111500</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°00'28.472552"</u>	ONE SIGMA ERROR
Longitude:	<u>121°24'16.544951"</u>	
Northing:	<u>367474.8866</u>	<u>0.018</u>
Easting:	<u>3268089.6767</u>	<u>0.017</u>
Convergence:	<u>-0°05'03.2932"</u>	
Scale Factor:	<u>1.000161162817</u>	
Ellipsoid Height:	<u>4009.145</u>	<u>0.029</u>
Orthometric Height:	<u>4072.8888</u>	<u>0.035</u>
Geoid Height:	<u>-63.7438</u>	

CONTROL MARK DATA

NAME OF MARK: 18112200 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (-B L M-) STATE: OREGON
 DATE OF MARK: 1932 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0403

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

GEODETIC AND MAPPING COORDINATES

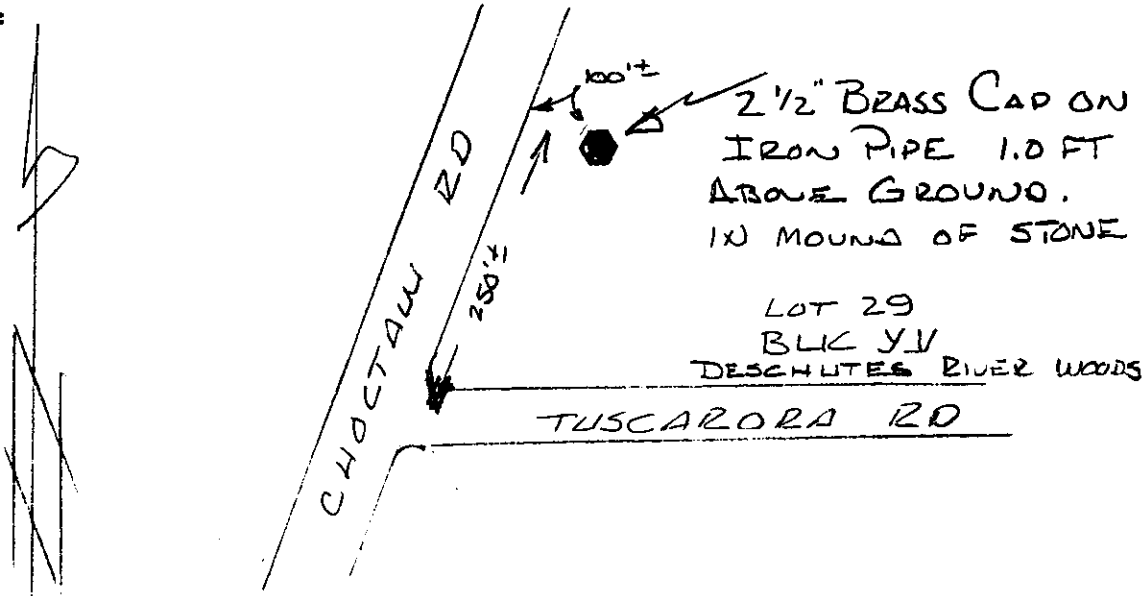
MARK: 18112200 HORIZONTAL ORDER: FIRST

Latitude:	43°59'36.309211"	ONE
Longitude:	121°24'17.215993"	SIGMA
Northing:	362191.9733	ERROR
Easting:	3268032.8462	0.013
Convergence:	-0°05'03.6799"	0.010
Scale Factor:	1.000161166967	
Ellipsoid Height:	3947.6983	0.028
Orthometric Height:	4011.3393	0.035
Geoid Height:	-63.641	

CONTROL MARK DATA

NAME OF MARK: 18112300 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (BLM) STATE: OREGON
 DATE OF MARK: 1932 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HOIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

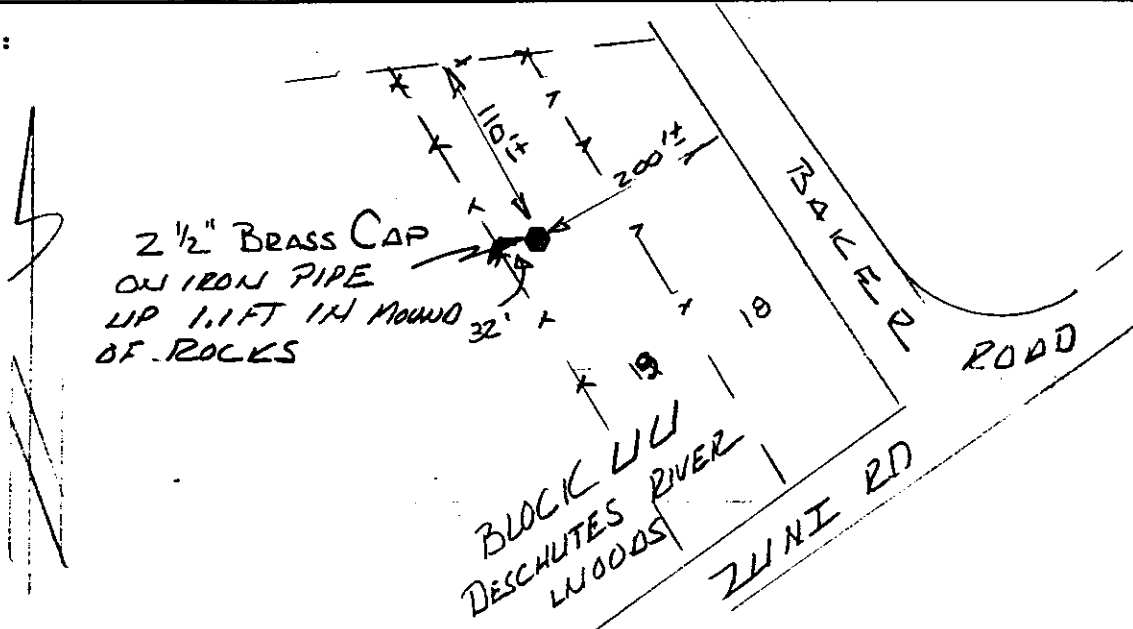
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>18112300</u>	HORIZONTAL ORDER:	FIRST
Latitude:	43°59'36.428511"	ONE	
Longitude:	121°23'03.873697"	SIGMA	
Northing:	362196.8229	ERROR	
Easting:	3273395.3011		0.015
Convergence:	-0°04'12.7381"		0.011
Scale Factor:	1.000160808290		
Ellipsoid Height:	3884.0694		0.033
Orthometric Height:	3947.7965		0.038
Geoid Height:	-63.7271		

CONTROL MARK DATA

NAME OF MARK: 18112304 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (B I M) STATE: OREGON
 DATE OF MARK: 1932 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

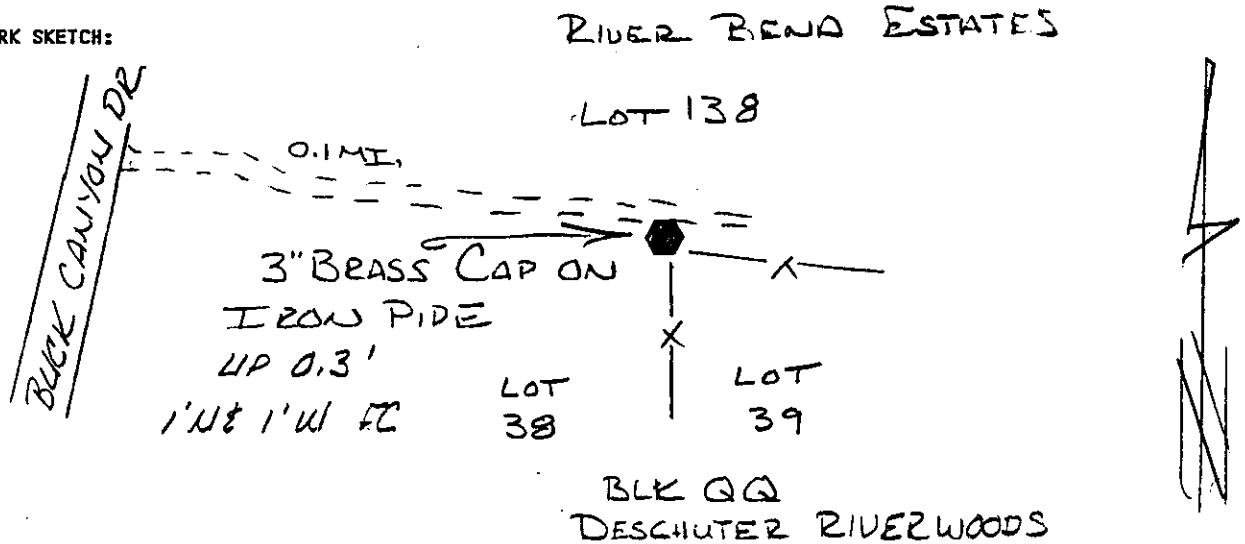
MARK: 18112304 HORIZONTAL ORDER: FIRST

Latitude:	43°59'36.435052"	ONE SIGMA ERROR
Longitude:	121°22'27.695666"	
Northing:	362194.4054	0.017
Easting:	3276040.4659	0.013
Convergence:	-0°03'47.6097"	
Scale Factor:	1.000160655552	
Ellipsoid Height:	3872.4934	0.033
Orthometric Height:	3936.2486	0.037
Geoid Height:	-63.7551	

CONTROL MARK DATA

NAME OF MARK: 18112440 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (BLM) STATE: OREGON
 DATE OF MARK: 1983 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

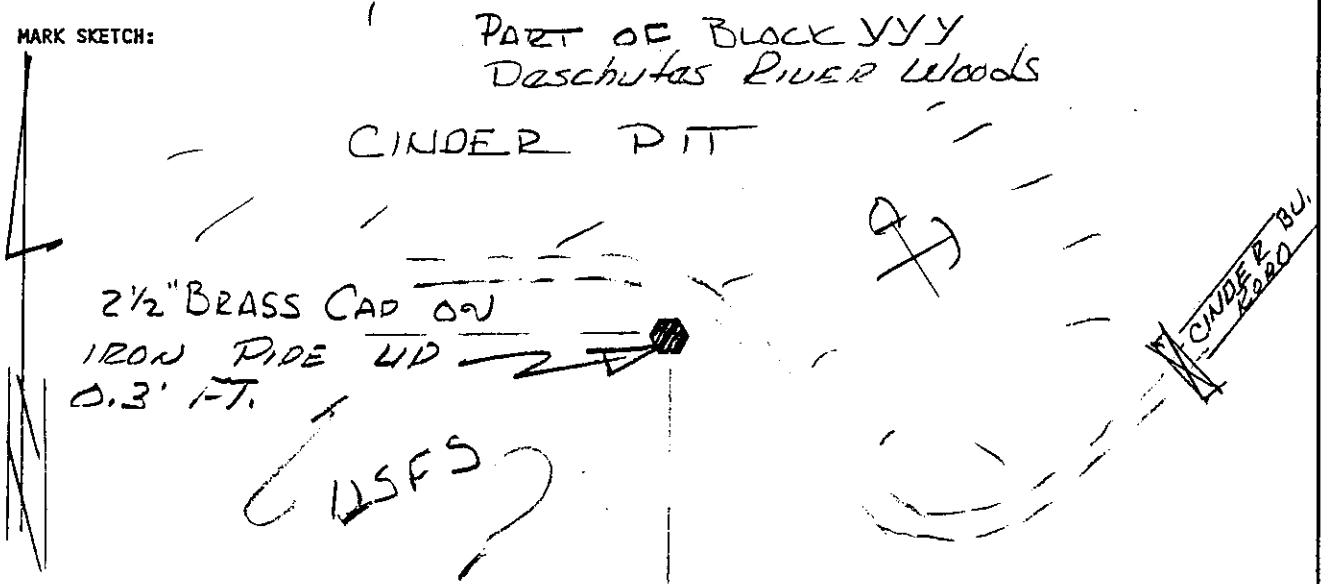
GEODETIC AND MAPPING COORDINATES

<u>MARK: 18112440</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°00'02.328644" ONE SIGMA ERROR
Longitude:	121°21'51.117599" 0.013
Northing:	364814.0617 0.014
Easting:	3278717.4496
Convergence:	-0°03'22.2297"
Scale Factor:	1.000160517246
Ellipsoid Height:	3828.9318 0.031
Orthometric Height:	3892.7696 0.034
Geoid Height:	-63.8378

CONTROL MARK DATA

NAME OF MARK: 18112500 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (BLM) STATE: OREGON
 DATE OF MARK: 1932 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

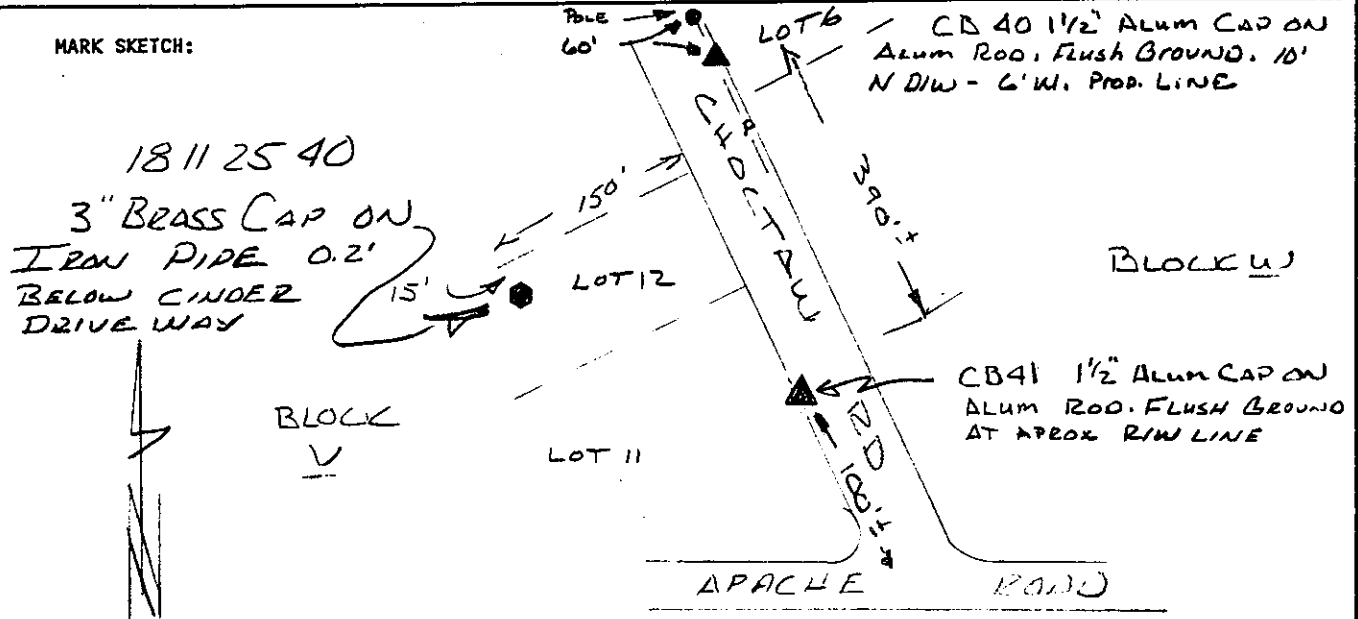
GEODETTIC AND MAPPING COORDINATES

MARK: 18112500 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	43°58'44.133860"	
Longitude:	121°21'52.114727"	
Northing:	356894.7575	0.010
Easting:	3278636.7638	0.013
Convergence:	-0°03'22.8427"	
Scale Factor:	1.000160521178	
Ellipsoid Height:	3983.8172	0.026
Orthometric Height:	4047.4838	0.032
Geoid Height:	-63.6665	

CONTROL MARK DATA

NAME OF MARK: 18112540 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1248



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

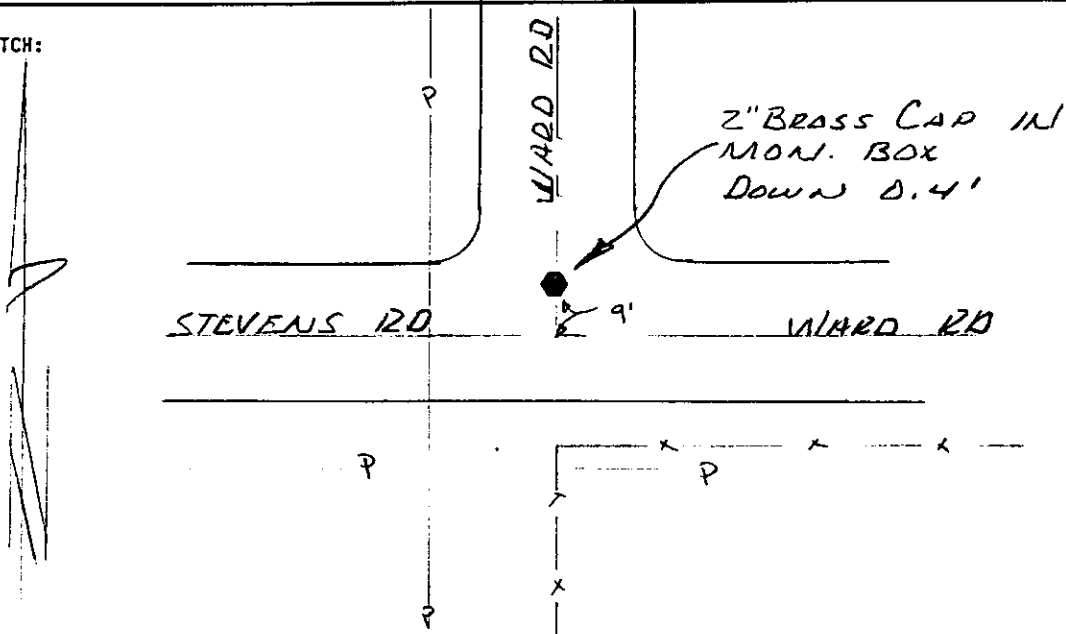
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 18112540</u>	HORIZONTAL ORDER: <u>SECOND</u>
Latitude:	43°59'10.127027" ONE SIGMA ERROR
Longitude:	121°21'51.799143"
Northing:	359527.2556 0.019
Easting:	3278662.4296 0.021
Convergence:	-0°03'22.6500"
Scale Factor:	1.000160519925
Ellipsoid Height:	3869.7543 0.032
Orthometric Height:	3933.4829 0.036
Geoid Height:	-63.7286

CONTROL MARK DATA

NAME OF MARK: 18120100 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1966 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1176

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

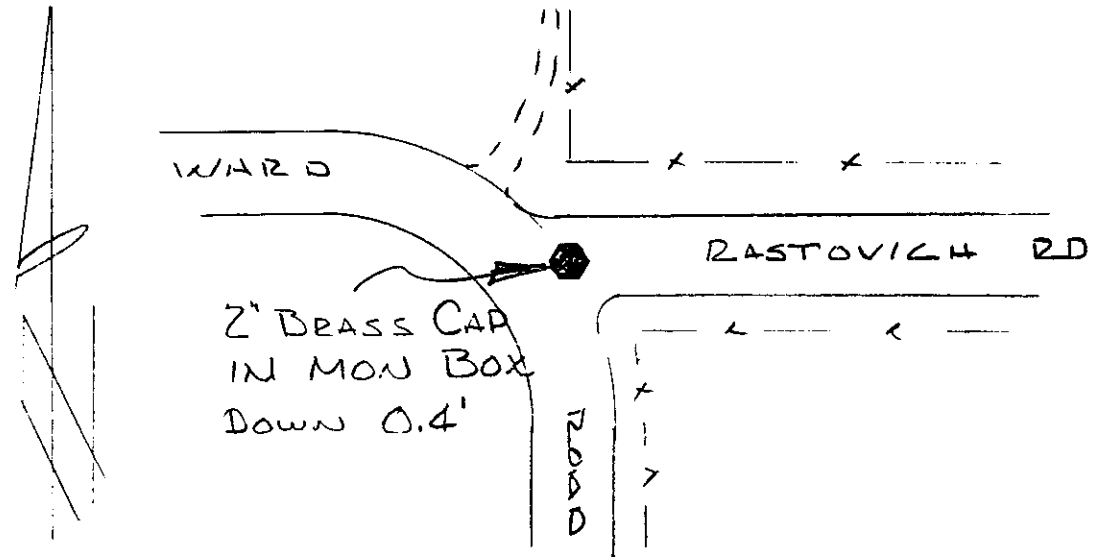
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18120100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'12.782214"	ONE SIGMA ERROR
Longitude:	121°14'36.977818"	
Northing:	378018.231	0.010
Easting:	3310449.4662	0.010
Convergence:	+0°01'39.4178"	
Scale Factor:	1.000160124691	
Ellipsoid Height:	3629.1717	0.016
Orthometric Height:	3693.2693	0.017
Geoid Height:	-64.0976	

CONTROL MARK DATA

NAME OF MARK: 18120104 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1973 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1173

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

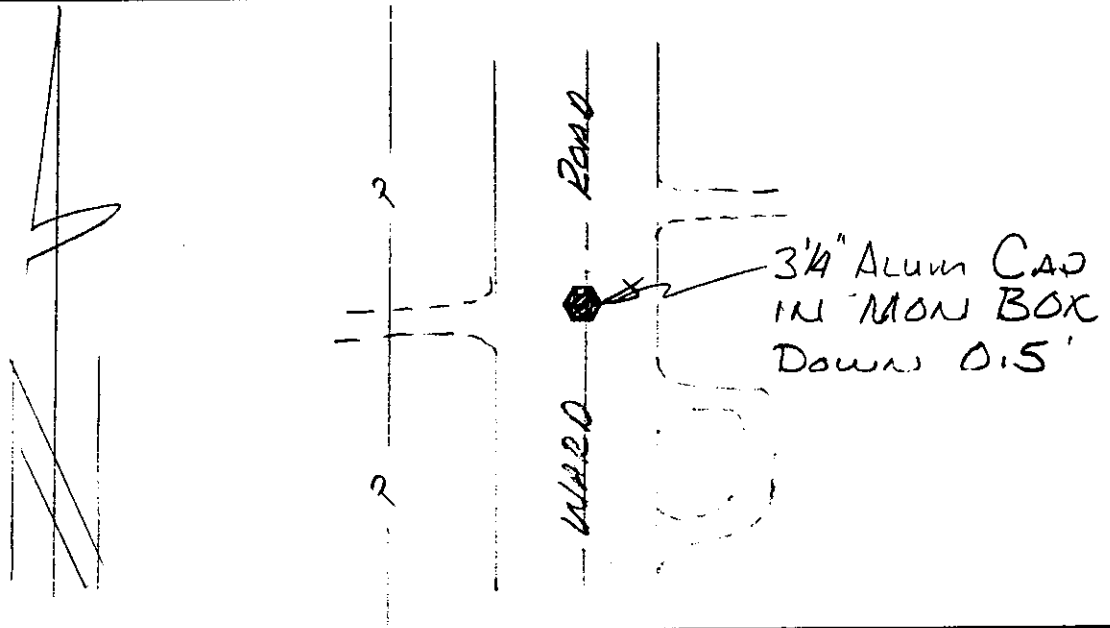
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18120104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'12.411575"	ONE SIGMA ERROR
Longitude:	121°14'01.180352"	
Northing:	377982.1117	0.007
Easting:	3313064.9182	0.007
Convergence:	+0°02'04.3011"	
Scale Factor:	1.000160194921	
Ellipsoid Height:	3650.6305	0.014
Orthometric Height:	3714.7121	0.016
Geoid Height:	-64.0816	

CONTROL MARK DATA

NAME OF MARK: 18120140 COUNTY: DESCHUTES
 MARK SET BY: LS 2140 THOMAS E. BLUST STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1071

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

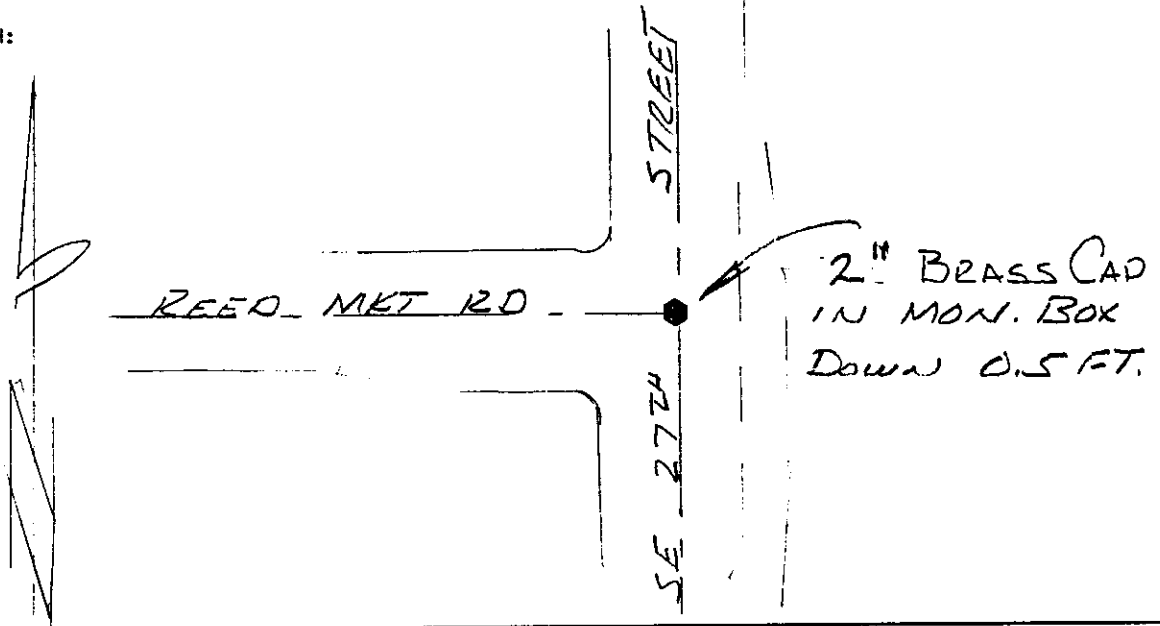
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>18120140</u>	HORIZONTAL ORDER:	FIRST
Latitude:	44°02'38.974672"	ONE SIGMA ERROR	
Longitude:	121°14'36.675385"		
Northing:	380670.973	0.008	
Easting:	3310470.2811	0.008	
Convergence:	+0°01'39.6411"		
Scale Factor:	1.000160125188		
Ellipsoid Height:	3596.6555	0.014	
Orthometric Height:	3660.8089	0.015	
Geoid Height:	-64.1535		

CONTROL MARK DATA

NAME OF MARK: 18120200 COUNTY: DESCHUTES
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1976 COUNTRY: U.S.A.
LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 3901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

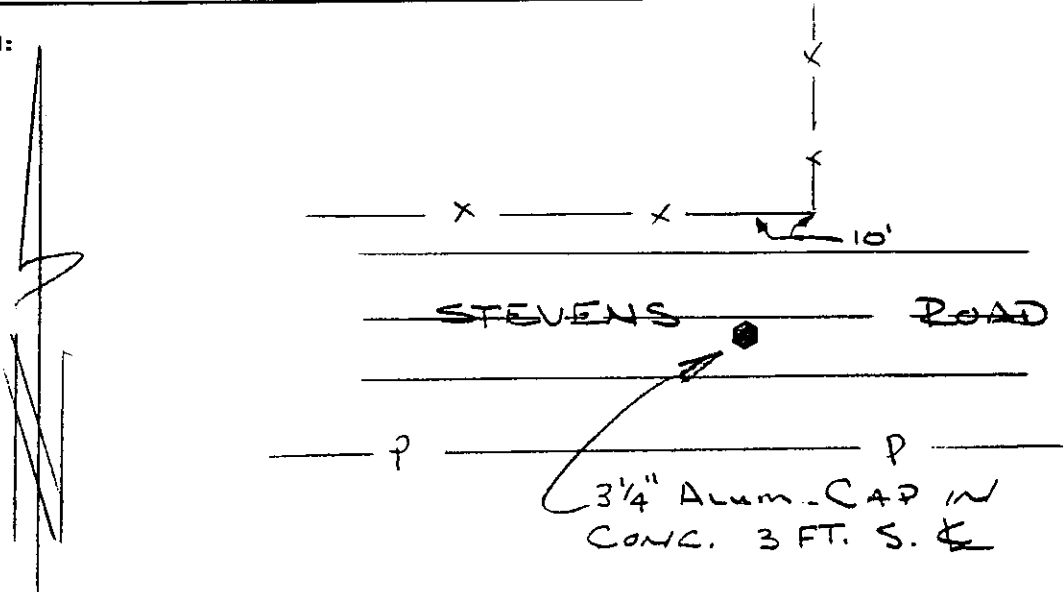
MARK: 18120200 HORIZONTAL ORDER: SECOND

Latitude:	<u>44°02'13.304067"</u>	ONE SIGMA
Longitude:	<u>121°15'49.236680"</u>	ERROR
Northing:	<u>378069.1815</u>	<u>0.011</u>
Easting:	<u>3305170.087</u>	<u>0.017</u>
Convergence:	<u>+0°00'49.1892"</u>	
Scale Factor:	<u>1.000160030524</u>	
Ellipsoid Height:		
Orthometric Height:		
Geoid Height:		

CONTROL MARK DATA

NAME OF MARK: 18120204 COUNTY: DESCHUTES
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0741

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

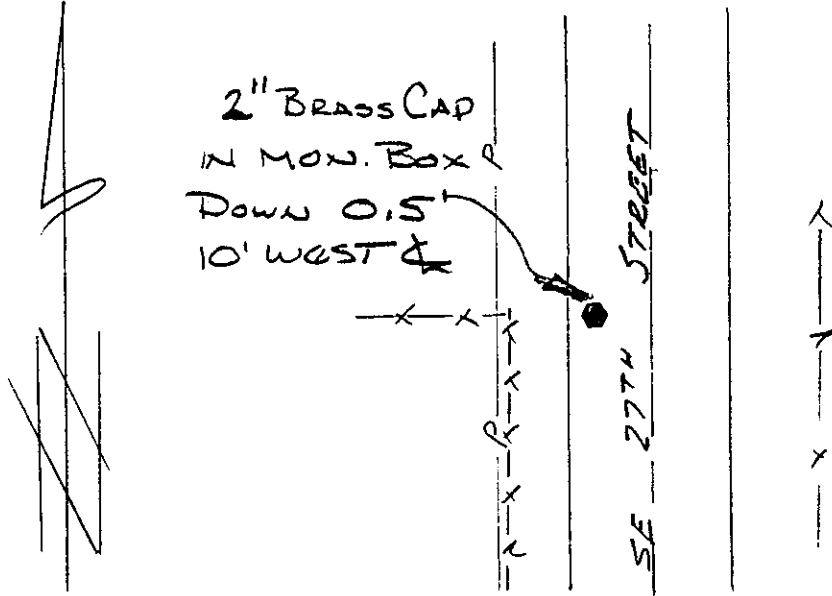
MARK: 18120204 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°02'13.043248"	
Longitude:	121°15'13.111475"	
Northing:	378043.5563	0.007
Easting:	3307809.4646	0.007
Convergence:	+0°01'14.3006"	
Scale Factor:	1.000160069645	
Ellipsoid Height:	3633.3334	0.011
Orthometric Height:	3697.4442	0.012
Geoid Height:	-64.1108	

CONTROL MARK DATA

NAME OF MARK: 18120240 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
DATE OF MARK: N/A COUNTRY: U.S.A.
LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

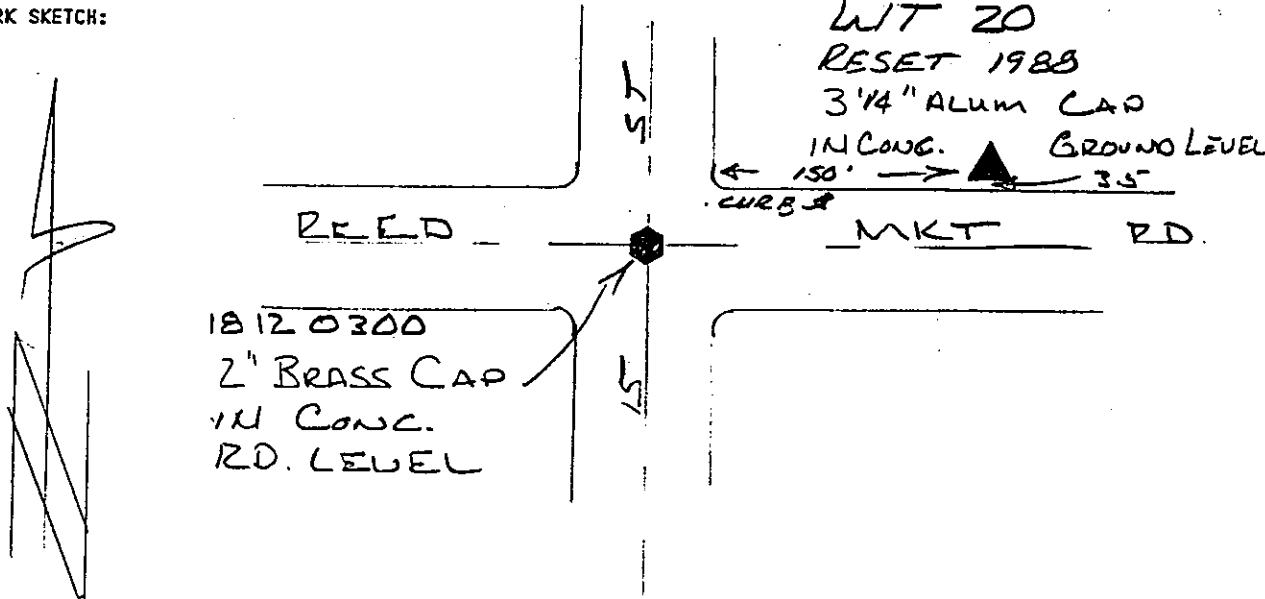
MARK: 18120240 HORIZONTAL ORDER: SECOND

Latitude:	<u>44°02'39.394839"</u>	ONE
Longitude:	<u>121°15'49.002245"</u>	SIGMA
Northing:	<u>380711.6186</u>	ERROR
Easting:	<u>3305186.5829</u>	0.015
Convergence:	<u>+0°00'49.3586"</u>	0.012
Scale Factor:	<u>1.000160030719</u>	
Ellipsoid Height:		
Orthometric Height:		
Geoid Height:		

CONTROL MARK DATA

NAME OF MARK: 18120300 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

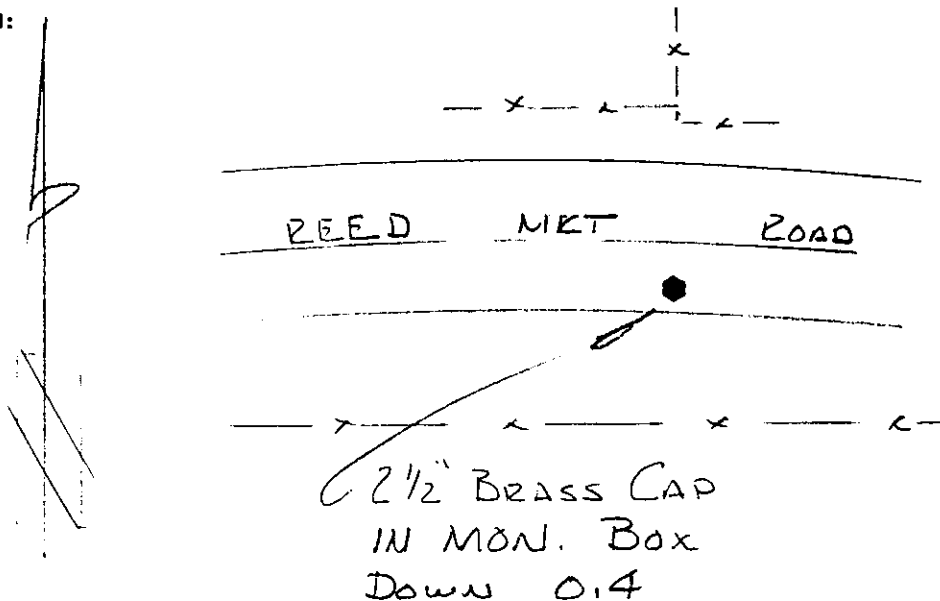
MARK: 18120300 HORIZONTAL ORDER: SECOND

		ONE SIGMA ERROR
Latitude:	44°02'12.987912"	
Longitude:	121°17'01.423873"	
Northing:	378036.5457	0.010
Easting:	3299895.9693	0.015
Convergence:	-0°00'00.9898"	
Scale Factor:	1.000160000012	
Ellipsoid Height:		
Orthometric Height:		
Geoid Height:		

CONTROL MARK DATA

NAME OF MARK: 18120304 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
DATE OF MARK: N/A COUNTRY: U.S.A.
LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

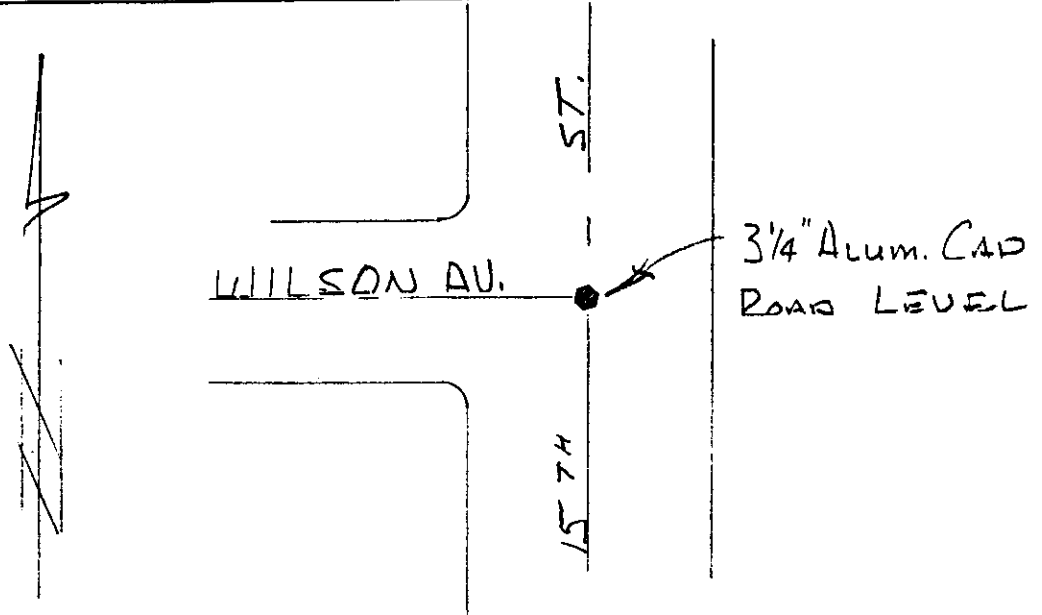
MARK: 18120304 HORIZONTAL ORDER: SECOND

Latitude:	<u>44°02'13.579861"</u>	ONE
Longitude:	<u>121°16'25.557762"</u>	SIGMA
Northing:	<u>378096.6431</u>	ERROR
Easting:	<u>3302516.4045</u>	<u>0.015</u>
Convergence:	<u>+0°00'23.9416"</u>	<u>0.020</u>
Scale Factor:	<u>1.000160007231</u>	
Ellipsoid Height:		
Orthometric Height:		
Geoid Height:		

CONTROL MARK DATA

NAME OF MARK: 18120340 COUNTY: DESCHUTES
 MARK SET BY: LS 2070 GEORGE HARTMAN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3657

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

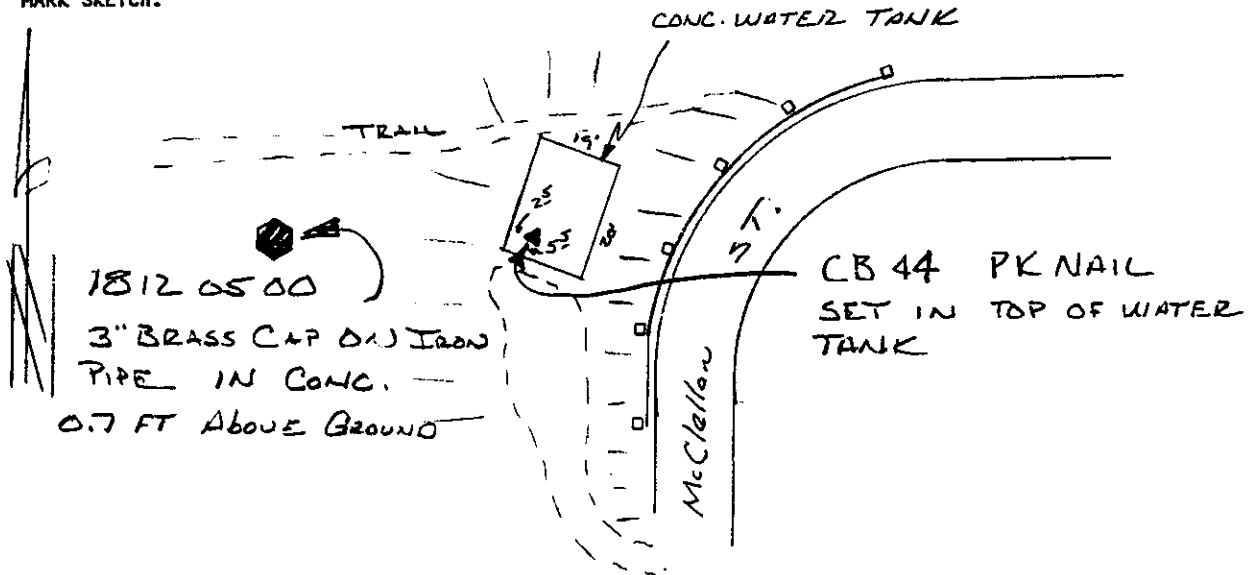
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18120340</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°02'39.029110"</u>	ONE SIGMA ERROR
Longitude:	<u>121°17'01.598487"</u>	
Northing:	<u>380673.9578</u>	<u>0.017</u>
Easting:	<u>3299883.2259</u>	<u>0.016</u>
Convergence:	<u>-0°00'01.1113"</u>	
Scale Factor:	<u>1.000160000016</u>	
Ellipsoid Height:	<u>3639.1855</u>	<u>0.031</u>
Orthometric Height:	<u>3703.4104</u>	<u>0.032</u>
Geoid Height:	<u>-64.2249</u>	

CONTROL MARK DATA

NAME OF MARK: 18120500 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1973 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3721

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

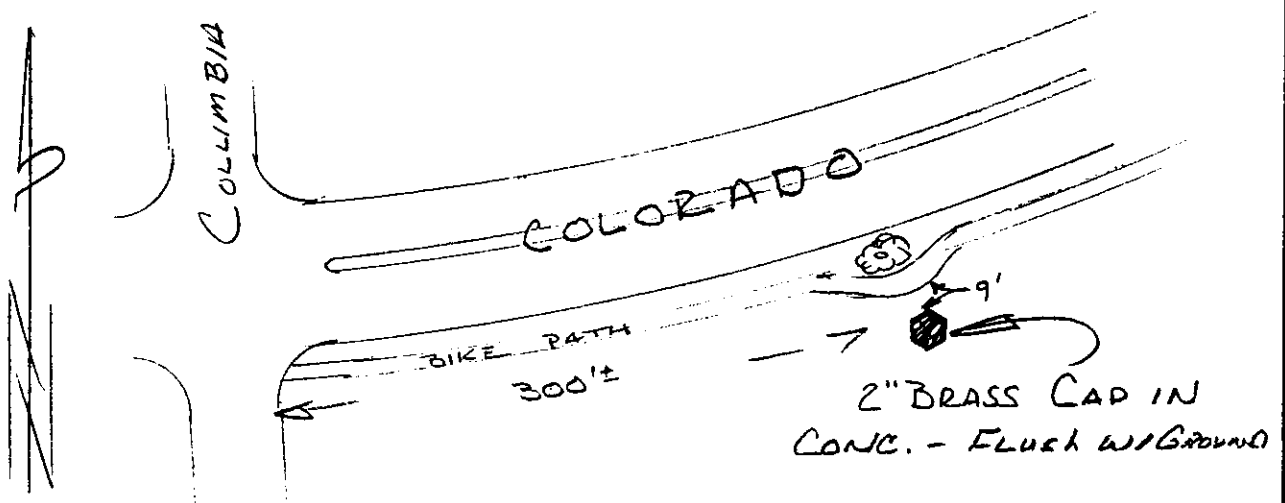
GEODETTIC AND MAPPING COORDINATES

<u>MARK: 18120500</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°02'13.081130"	ONE SIGMA ERROR
Longitude:	121°19'24.649351"	
Northing:	378048.5324	0.016
Easting:	3289431.6646	0.016
Convergence:	-0°01'40.5490"	
Scale Factor:	1.000160127544	
Ellipsoid Height:	3582.3986	0.024
Orthometric Height:	3646.5708	0.026
Geoid Height:	-64.1722	

CONTROL MARK DATA

NAME OF MARK: 18120540 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1984 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3743

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

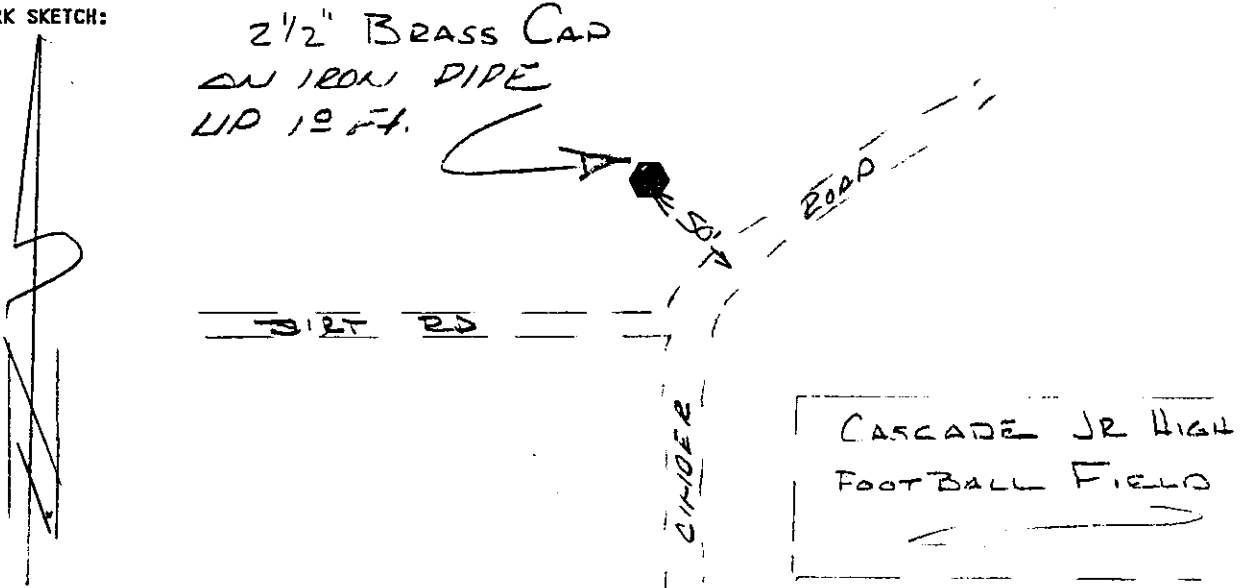
GEODETIC AND MAPPING COORDINATES

<u>MARK: 18120540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'39.048207"	ONE SIGMA ERROR
Longitude:	121°19'26.127244"	
Northing:	380678.5204	0.010
Easting:	3289324.9824	0.009
Convergence:	-0°01'41.5895"	
Scale Factor:	1.000160130131	
Ellipsoid Height:	3594.9845	0.012
Orthometric Height:	3659.2192	0.012
Geoid Height:	-64.2347	

CONTROL MARK DATA

NAME OF MARK: 18120600 COUNTY: DESCHUTES
 MARK SET BY: LS 0981 LEON KENNEDY STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 10536

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

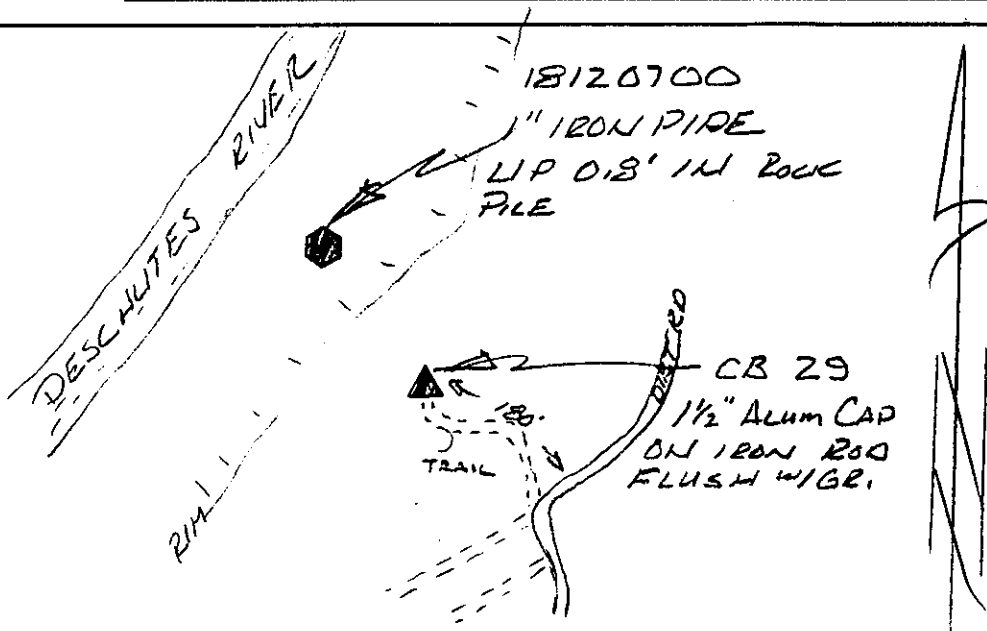
GEODETIC AND MAPPING COORDINATES

<u>MARK: 18120600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'13.282434"	ONE SIGMA ERROR
Longitude:	121°20'37.046603"	
Northing:	378072.1738	0.011
Easting:	3284142.2092	0.009
Convergence:	-0°02'30.8741"	
Scale Factor:	1.000160287165	
Ellipsoid Height:	3687.5415	0.027
Orthometric Height:	3751.7036	0.030
Geoid Height:	-64.1621	

CONTROL MARK DATA

NAME OF MARK: 18120700 COUNTY: DESCHUTES
 MARK SET BY: LS 0010 AL MANSFIELD STATE: OREGON
 DATE OF MARK: 1964 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3375

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

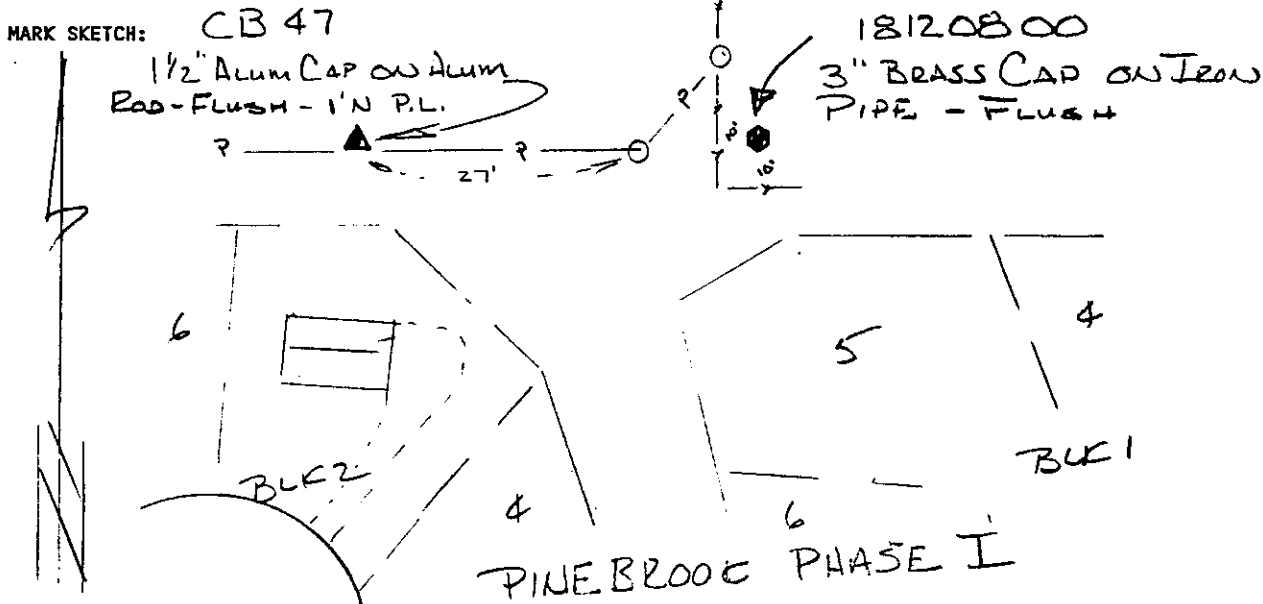
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: 18120700</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°01'20.844132"</u>	ONE SIGMA ERROR
Longitude:	<u>121°20'37.778224"</u>	
Northing:	<u>372761.3533</u>	<u>0.021</u>
Easting:	<u>3284084.8585</u>	<u>0.021</u>
Convergence:	<u>-0°02'31.3429"</u>	
Scale Factor:	<u>1.000160289247</u>	
Ellipsoid Height:	<u>3712.0427</u>	<u>0.028</u>
Orthometric Height:	<u>3776.0861</u>	<u>0.031</u>
Geoid Height:	<u>-64.0434</u>	

CONTROL MARK DATA

NAME OF MARK: 18120800 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1974 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 8895



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

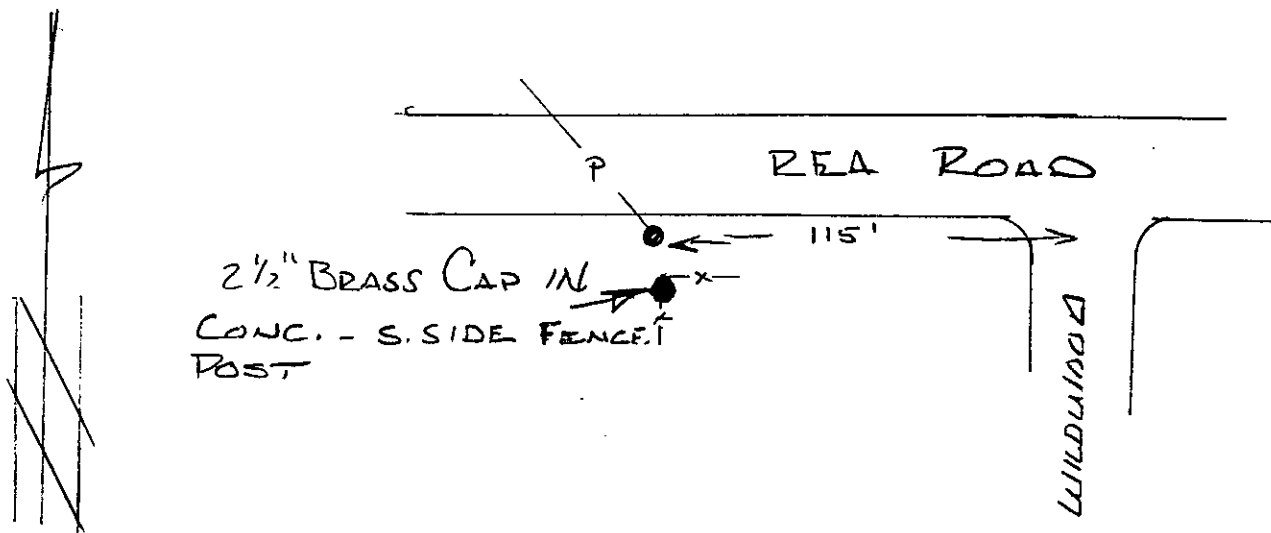
GEODETIC AND MAPPING COORDINATES

MARK: <u>18120800</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°01'20.980443"</u>	ONE SIGMA ERROR
Longitude:	<u>121°19'24.716864"</u>	
Northing:	<u>372771.8981</u>	<u>0.015</u>
Easting:	<u>3289424.1589</u>	<u>0.015</u>
Convergence:	<u>-0°01'40.5697"</u>	
Scale Factor:	<u>1.000160127725</u>	
Ellipsoid Height:	<u>3750.9716</u>	<u>0.021</u>
Orthometric Height:	<u>3815.0219</u>	<u>0.022</u>
Geoid Height:	<u>-64.0502</u>	

CONTROL MARK DATA

NAME OF MARK: 18120900 COUNTY: DESCHUTES
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON
 DATE OF MARK: 1978 COUNTRY: U.S.A.
 LOCATION: SECTION 9 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 5091

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

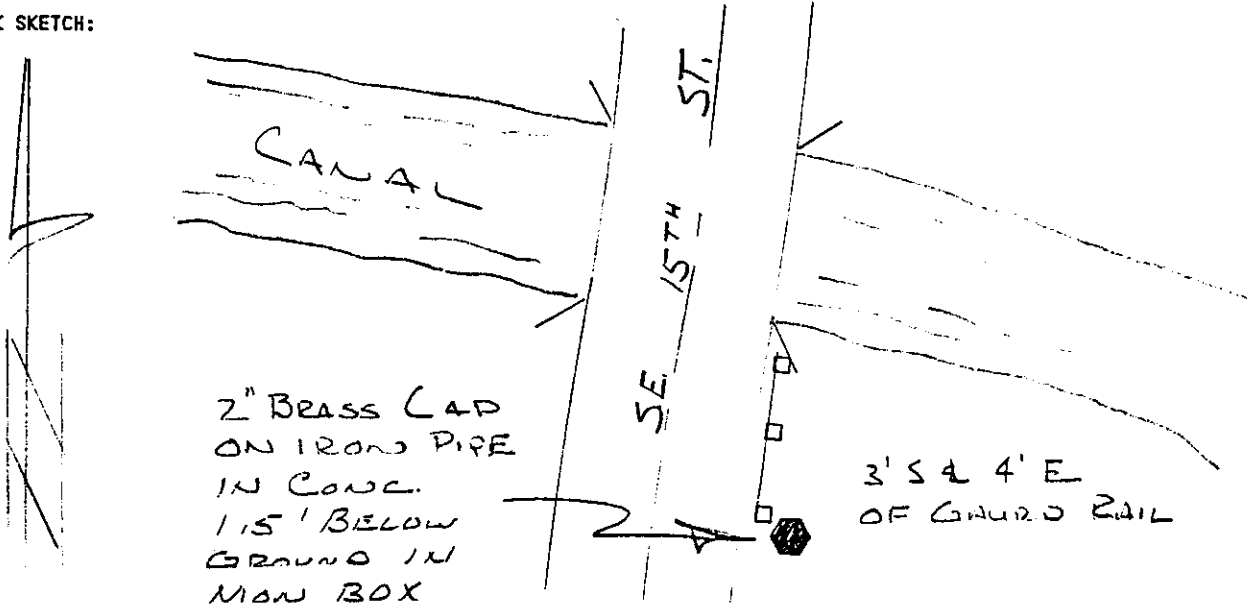
MARK: 18120900 HORIZONTAL ORDER: FIRST

Latitude:	44°01'20.902620"	ONE SIGMA ERROR
Longitude:	121°18'13.657123"	
Northing:	372762.106	0.008
Easting:	3294617.1698	0.006
Convergence:	-0°00'51.1873"	
Scale Factor:	1.000160033088	
Ellipsoid Height:	3696.2801	0.017
Orthometric Height:	3760.3282	0.020
Geoid Height:	-64.0481	

CONTROL MARK DATA

NAME OF MARK: 18121000 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1981 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0411

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

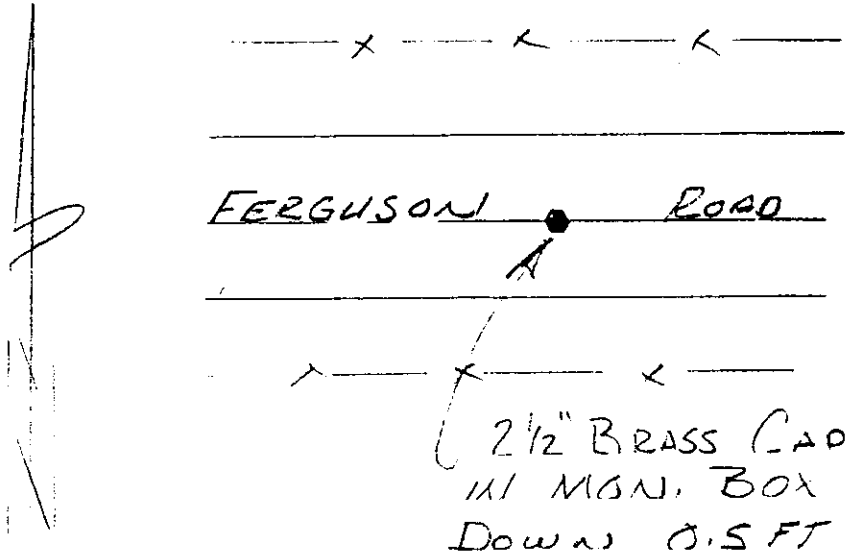
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121000</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'20.859699"	ONE SIGMA ERROR
Longitude:	121°17'02.840025"	
Northing:	372757.0921	0.007
Easting:	3299792.4522	0.007
Convergence:	-0°00'01.9736"	
Scale Factor:	1.000160000049	
Ellipsoid Height:	3654.1208	0.012
Orthometric Height:	3718.1609	0.014
Geoid Height:	-64.0401	

CONTROL MARK DATA

NAME OF MARK: 18121004 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1976 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3889

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

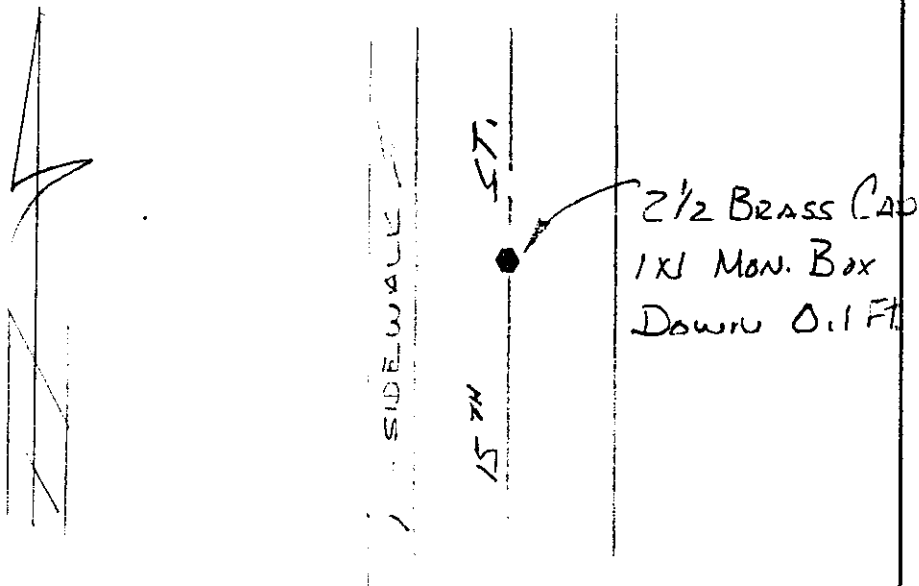
MARK: 18121004 HORIZONTAL ORDER: FIRST

Latitude:	44°01'21.200859"	ONE
Longitude:	121°16'26.117651"	SIGMA
		ERROR
Northing:	372791.7845	0.014
Easting:	3302476.1038	0.014
Convergence:	+0°00'23.5463"	
Scale Factor:	1.000160007001	
Ellipsoid Height:	3665.7788	0.026
Orthometric Height:	3729.8096	0.027
Geoid Height:	-64.0308	

CONTROL MARK DATA

NAME OF MARK: 18121040 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1989 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

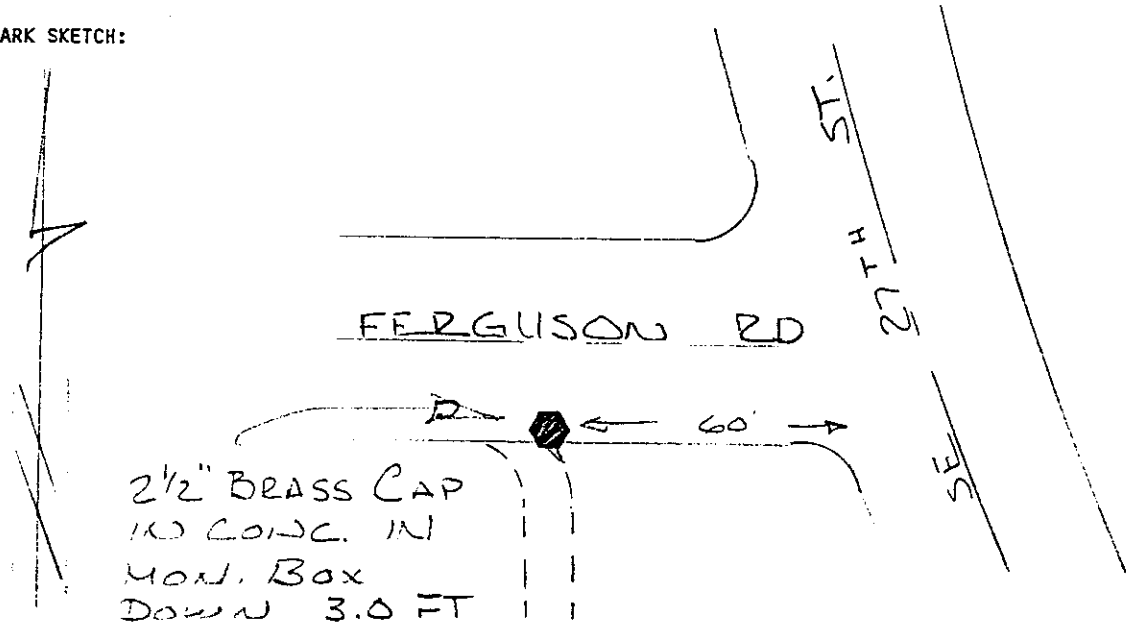
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121040</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'46.888155"	ONE SIGMA ERROR
Longitude:	121°17'01.928985"	
Northing:	375393.2065	0.017
Easting:	3299859.0477	0.016
Convergence:	-0°00'01.3407"	
Scale Factor:	1.000160000023	
Ellipsoid Height:	3645.8291	0.033
Orthometric Height:	3709.9335	0.034
Geoid Height:	-64.1044	

CONTROL MARK DATA

NAME OF MARK: 18121100 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1984 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3886

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

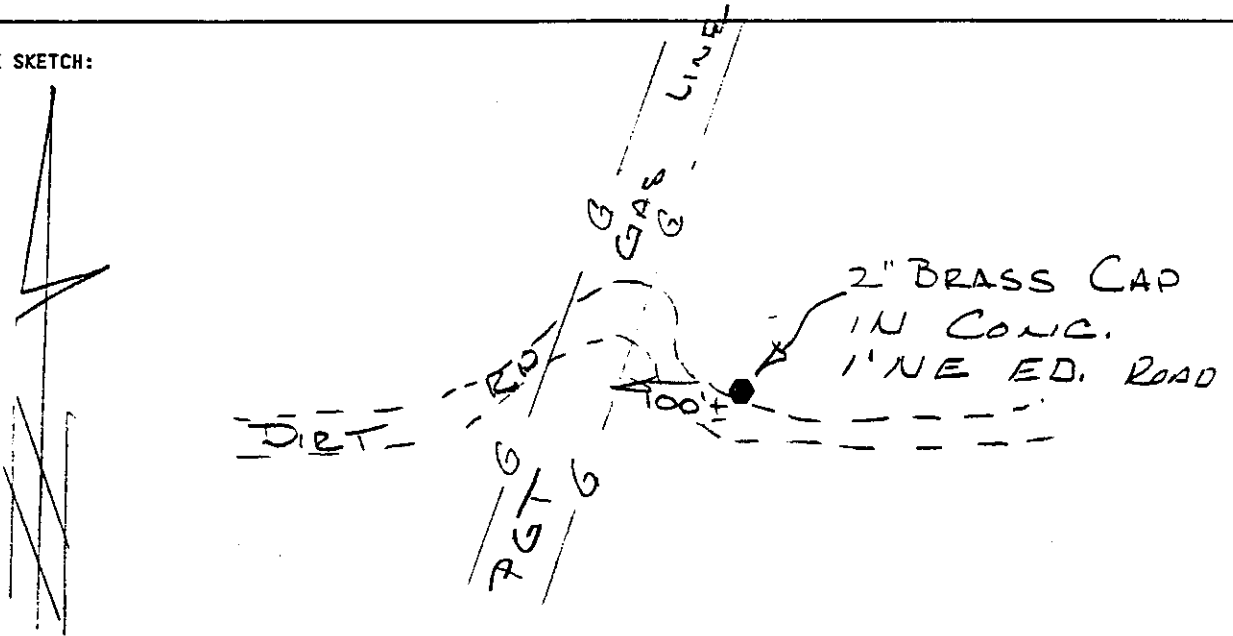
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'20.996350"	ONE SIGMA ERROR
Longitude:	121°15'50.133594"	
Northing:	372771.5318	0.011
Easting:	3305105.804	0.010
Convergence:	+0°00'48.5530"	
Scale Factor:	1.000160029770	
Ellipsoid Height:	3651.3786	0.018
Orthometric Height:	3715.4045	0.019
Geoid Height:	-64.026	

CONTROL MARK DATA

NAME OF MARK: 18121104 COUNTY: DESCHUTES
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON
 DATE OF MARK: 1978 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0960

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

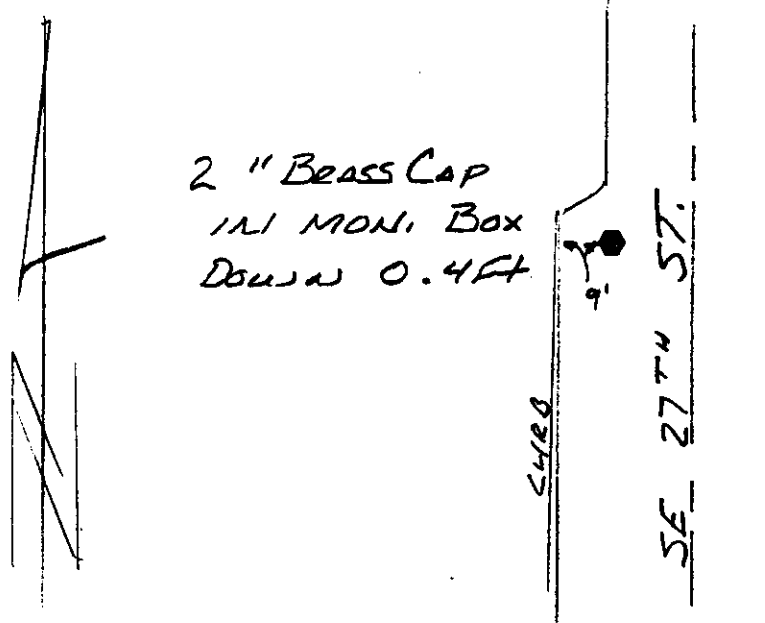
MARK: 18121104 HORIZONTAL ORDER: FIRST

Latitude:	44°01'20.808268"	ONE
Longitude:	121°15'13.850467"	SIGMA
Northing:	372753.2695	ERROR
Easting:	3307757.3648	0.008
Convergence:	+0°01'13.7676"	0.008
Scale Factor:	1.000160068719	
Ellipsoid Height:	3641.7287	0.016
Orthometric Height:	3705.7402	0.017
Geoid Height:	-64.0115	

CONTROL MARK DATA

NAME OF MARK: 18121140 COUNTY: DESCHUTES
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1976 COUNTRY: U.S.A.
LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 3901

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

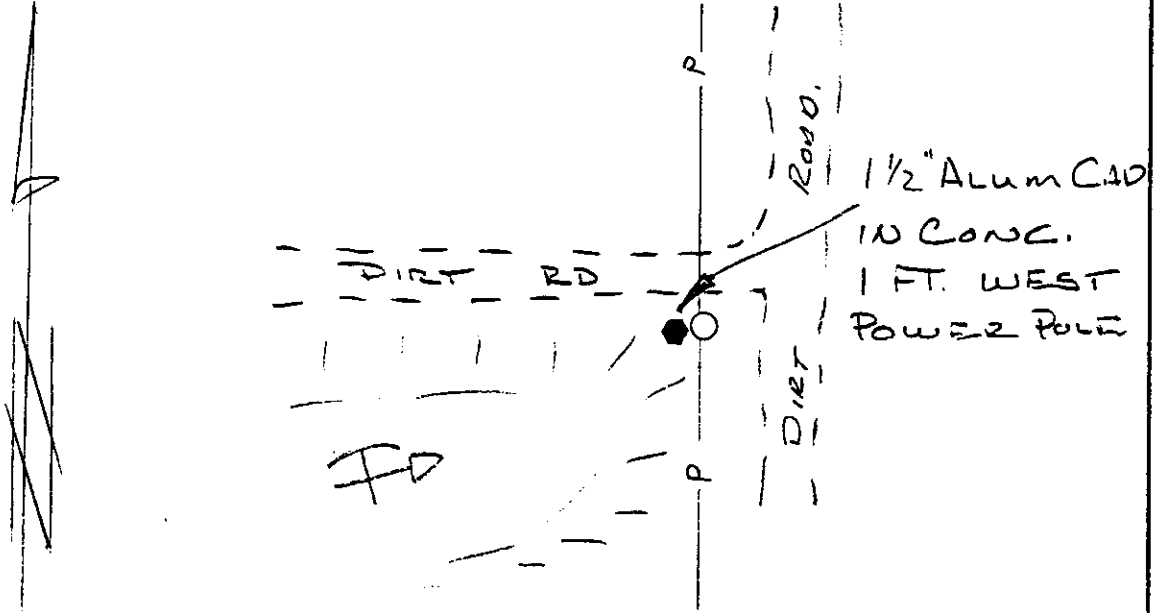
GEOIDITIC AND MAPPING COORDINATES

MARK: <u>18121140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°01'47.150276"</u>	ONE
Longitude:	<u>121°15'49.687083"</u>	SIGMA
Northing:	<u>375420.3618</u>	ERROR
Easting:	<u>3305137.8074</u>	0.009
Convergence:	<u>+0°00'48.8697"</u>	0.009
Scale Factor:	<u>1.000160030144</u>	
Ellipsoid Height:	<u>3641.4676</u>	0.017
Orthometric Height:	<u>3705.543</u>	0.018
Geoid Height:	<u>-64.0754</u>	

CONTROL MARK DATA

NAME OF MARK: 18121200 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1177

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

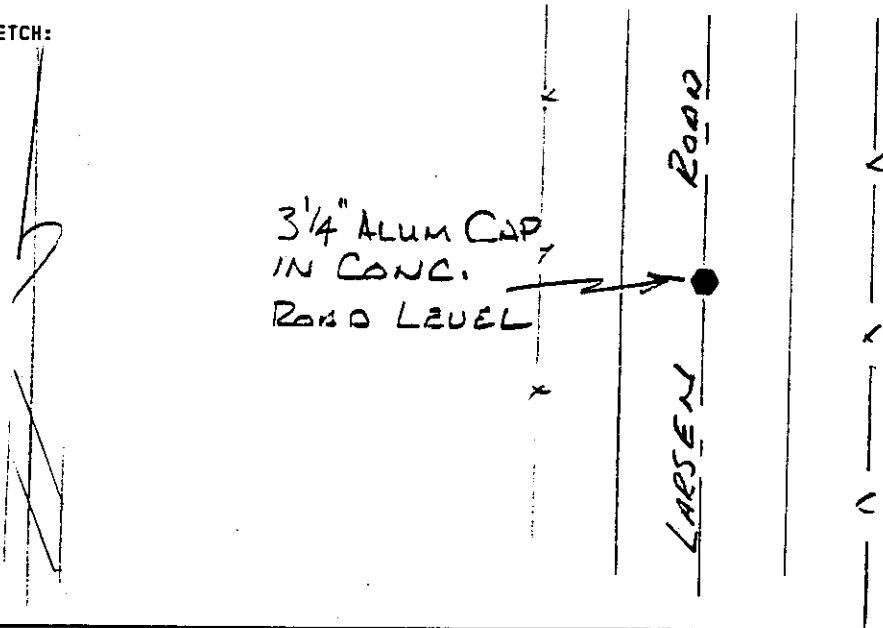
MARK: 18121200 HORIZONTAL ORDER: FIRST

		ONE
Latitude:	44°01'20.620137"	SIGMA
Longitude:	121°14'37.558408"	ERROR
Northing:	372735.3266	0.011
Easting:	3310409.5828	0.011
Convergence:	+0°01'38.9883"	
Scale Factor:	1.000160123741	
Ellipsoid Height:	3628.0169	0.021
Orthometric Height:	3692.0098	0.022
Geoid Height:	-63.9929	

CONTROL MARK DATA

NAME OF MARK: 18121204 COUNTY: DESCHUTES
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 12 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1174

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

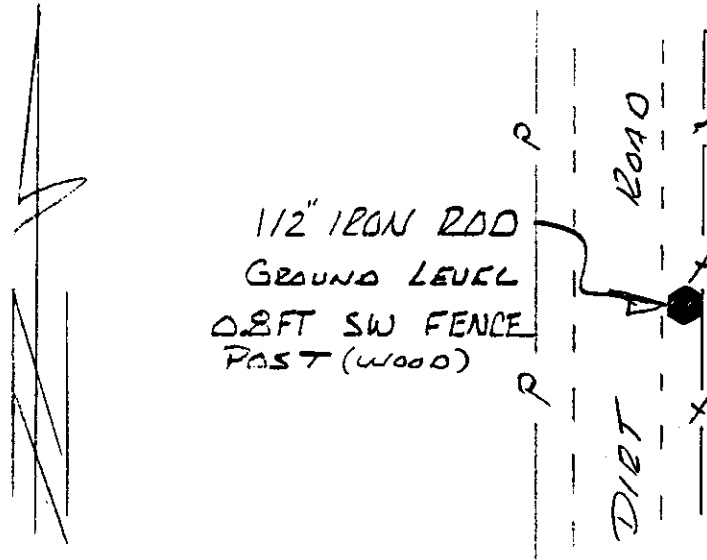
MARK: 18121204 HORIZONTAL ORDER: FIRST

Latitude:	44°01'20.169348"	ONE SIGMA ERROR
Longitude:	121°14'01.790555"	
Northing:	372691.0834	0.013
Easting:	3313023.5127	0.013
Convergence:	+0°02'03.8445"	
Scale Factor:	1.000160193688	
Ellipsoid Height:	3696.7215	0.024
Orthometric Height:	3760.6975	0.025
Geoid Height:	-63.976	

CONTROL MARK DATA

NAME OF MARK: 18121240 COUNTY: DESCHUTES
MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON
DATE OF MARK: 1966 COUNTRY: U.S.A.
LOCATION: SECTION 12 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1178

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

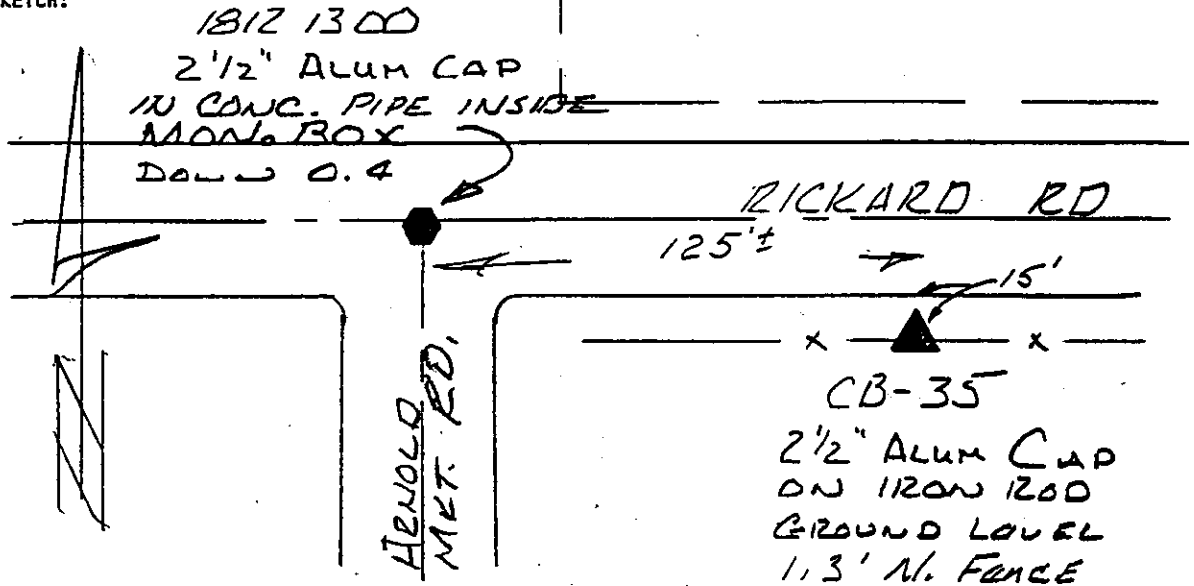
MARK: 18121240 HORIZONTAL ORDER: FIRST

Latitude:	44°01'46.730277"	ONE SIGMA ERROR
Longitude:	121°14'37.050881"	
Northing:	375379.7321	0.009
Easting:	3310445.399	0.009
Convergence:	+0°01'39.3540"	
Scale Factor:	1.000160124594	
Ellipsoid Height:	3619.4267	0.018
Orthometric Height:	3683.4707	0.019
Geoid Height:	-64.044	

CONTROL MARK DATA

NAME OF MARK: 18121300 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

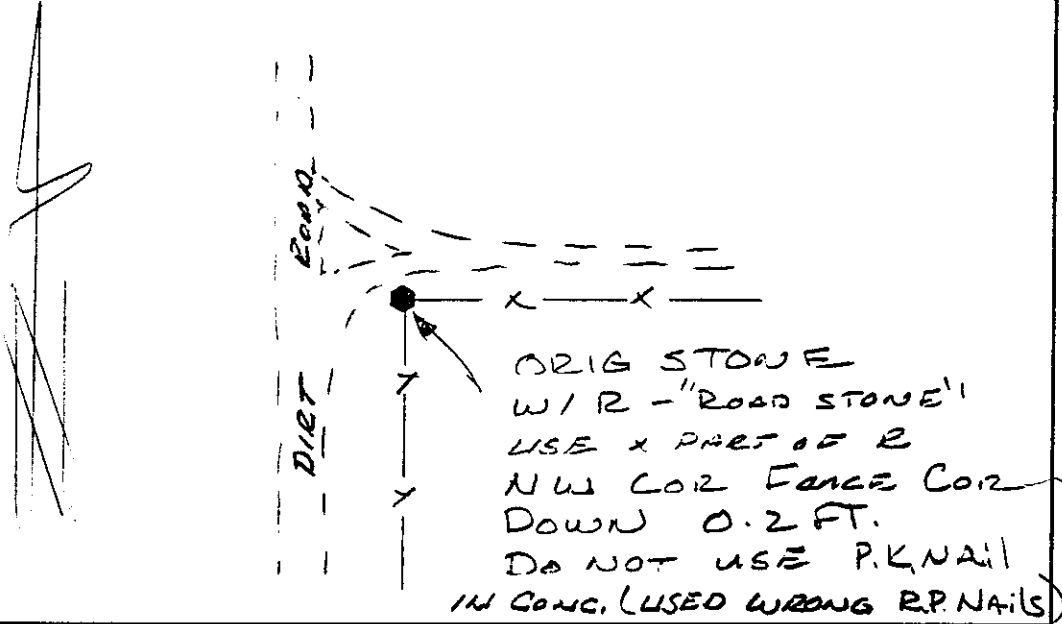
MARK: 18121300 HORIZONTAL ORDER: SECOND

Latitude:	44°00'27.990404"	ONE
Longitude:	121°14'37.438546"	SIGMA
Northing:	367405.0971	ERROR
Easting:	3310420.9021	0.010
Convergence:	+0°01'39.0454"	0.016
Scale Factor:	1.000160124011	
Ellipsoid Height:	3647.5969	0.019
Orthometric Height:	3711.4608	0.021
Geoid Height:	-63.864	

CONTROL MARK DATA

NAME OF MARK: 18121340 COUNTY: DESCHUTES
 MARK SET BY: CROOK CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1910 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 3949

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

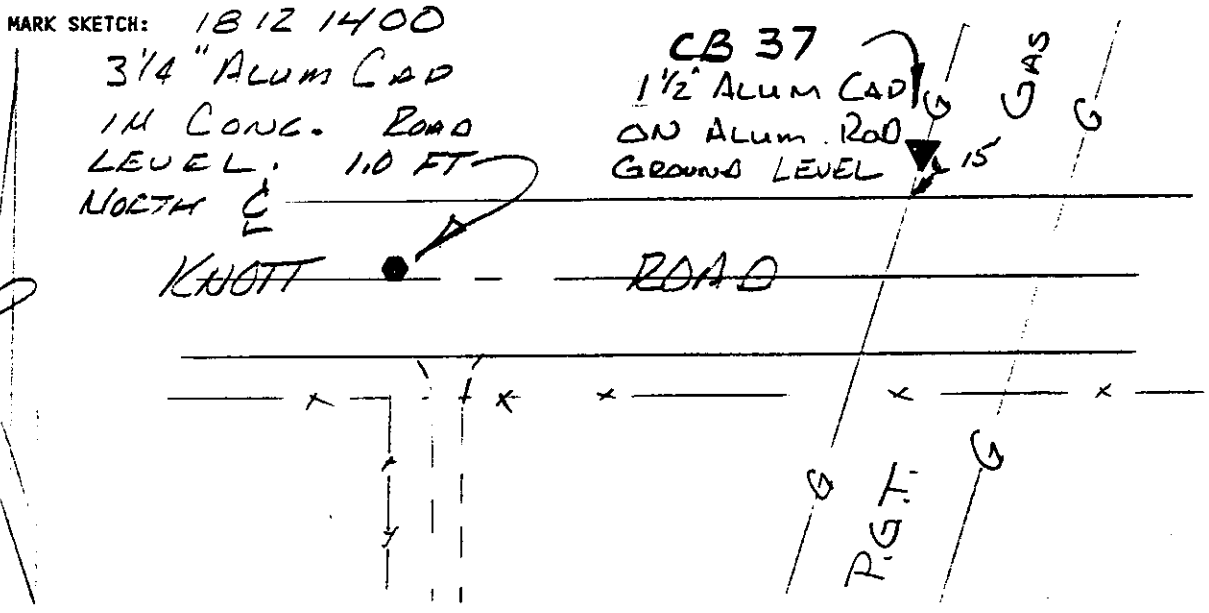
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121340</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°00'54.537800"	ONE SIGMA ERROR
Longitude:	121°14'37.656364"	
Northing:	370093.7548	0.013
Easting:	3310403.6909	0.013
Convergence:	+0°01'38.9073"	
Scale Factor:	1.000160123601	
Ellipsoid Height:	3648.9922	0.022
Orthometric Height:	3712.9242	0.024
Geoid Height:	-63.932	

CONTROL MARK DATA

NAME OF MARK: 18121400 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0088



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

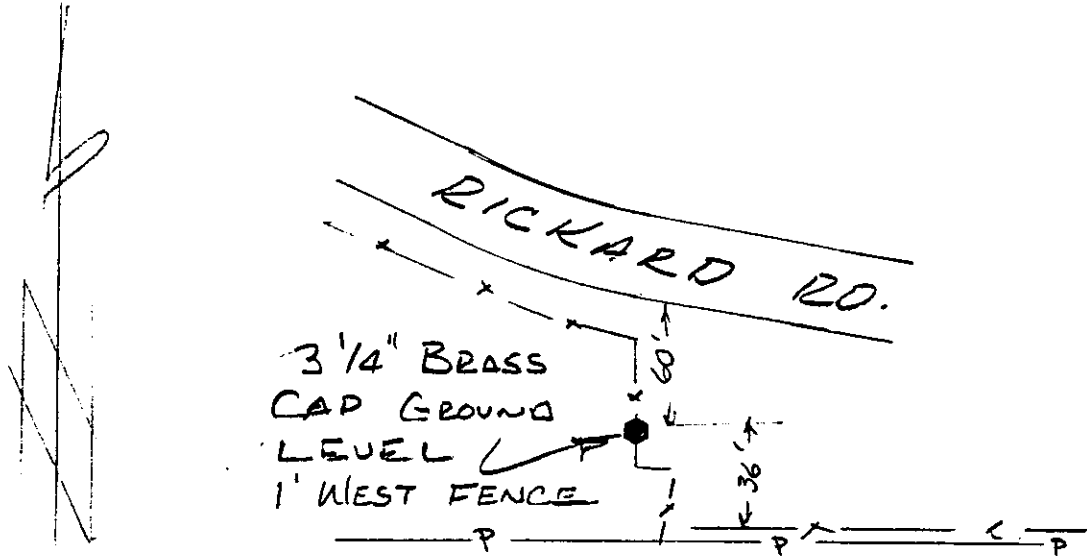
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121400</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°00'28.702394"	ONE SIGMA ERROR
Longitude:	121°15'50.923835"	
Northing:	367475.2913	0.012
Easting:	3305049.286	0.017
Convergence:	+0°00'47.9913"	
Scale Factor:	1.000160029114	
Ellipsoid Height:	3675.8817	0.022
Orthometric Height:	3739.7728	0.023
Geoid Height:	-63.8911	

CONTROL MARK DATA

NAME OF MARK: 18121404 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1043

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

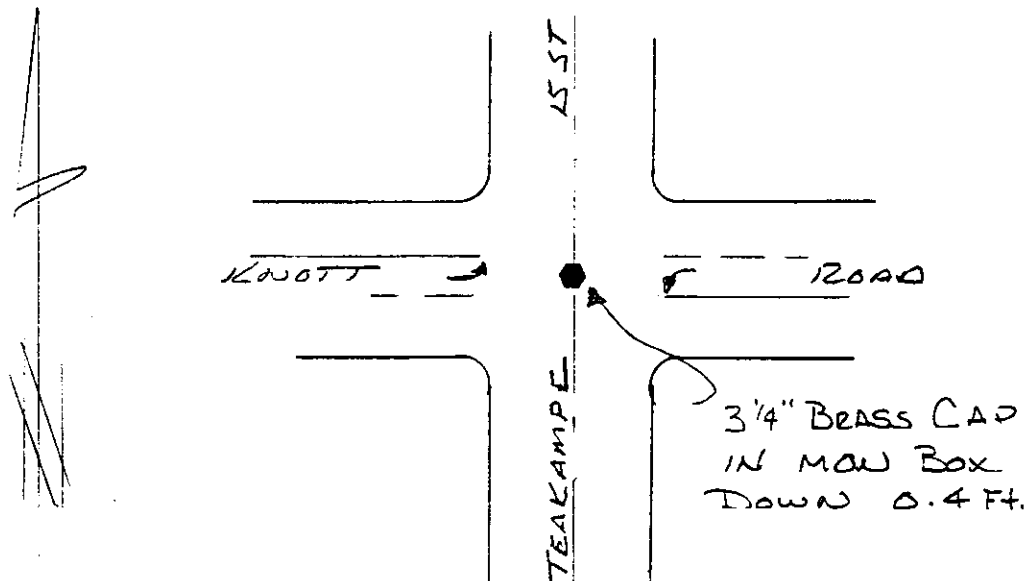
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'28.448025"	ONE SIGMA ERROR
Longitude:	121°15'13.636876"	
Northing:	367450.3347	0.007
Easting:	3307774.874	0.007
Convergence:	+0°01'13.8966"	
Scale Factor:	1.000160069030	
Ellipsoid Height:	3636.2544	0.013
Orthometric Height:	3700.1336	0.015
Geoid Height:	-63.8792	

CONTROL MARK DATA

NAME OF MARK: 18121500 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

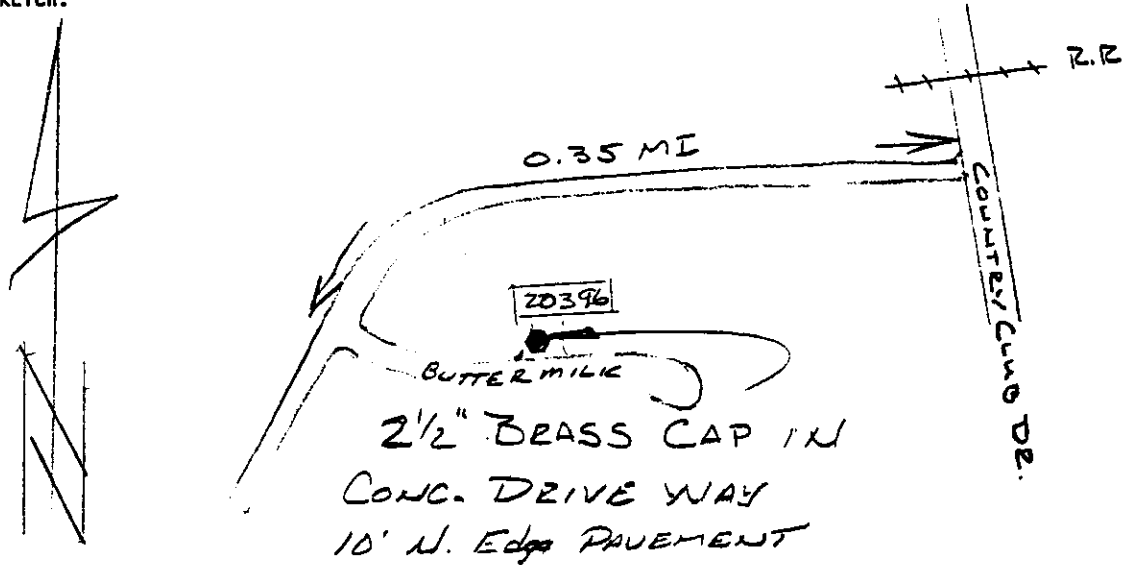
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18121500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'28.678273"	ONE SIGMA ERROR
Longitude:	121°17'02.748228"	
Northing:	367472.262	0.010
Easting:	3299799.1117	0.010
Convergence:	-0°00'01.9094"	
Scale Factor:	1.000160000046	
Ellipsoid Height:	3689.48	0.015
Orthometric Height:	3753.397	0.017
Geoid Height:	-63.909	

CONTROL MARK DATA

NAME OF MARK: 18121600 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1145

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

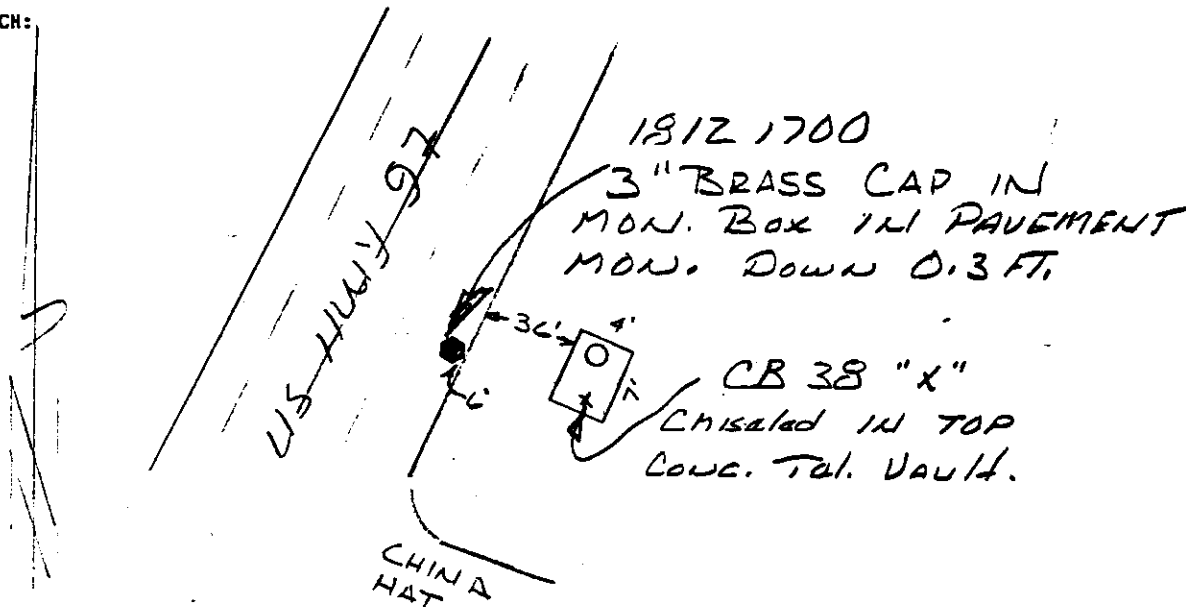
MARK: 18121600 HORIZONTAL ORDER: FIRST

Latitude:	44°00'28.230768"	ONE
Longitude:	121°18'14.284326"	SIGMA
Northing:	367427.618	ERROR
Easting:	3294569.9991	0.012
Convergence:	-0°00'51.6095"	0.011
Scale Factor:	1.000160033670	
Ellipsoid Height:	3777.0884	0.028
Orthometric Height:	3841.0103	0.030
Geoid Height:	-63.9219	

CONTROL MARK DATA

NAME OF MARK: 18121700 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

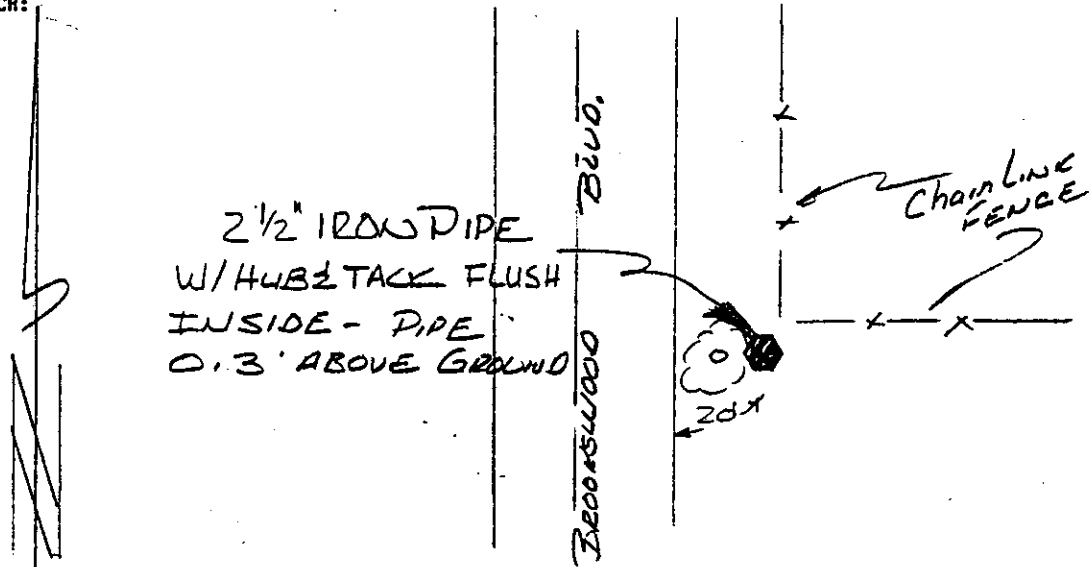
MARK: 18121700 HORIZONTAL ORDER: SECOND

Latitude:	44°00'28.820040"	ONE
Longitude:	121°19'25.270999"	SIGMA
		ERROR
Northing:	367489.2169	0.015
Easting:	3289381.0777	0.015
Convergence:	-0°01'40.9283"	
Scale Factor:	1.000160128768	
Ellipsoid Height:	3784.3175	0.019
Orthometric Height:	3848.2474	0.020
Geoid Height:	-63.9298	

CONTROL MARK DATA

NAME OF MARK: 18121800 COUNTY: DESCHUTES
 MARK SET BY: PE 3700 EMILE BACHAND STATE: OREGON
 DATE OF MARK: 1968 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 10411

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

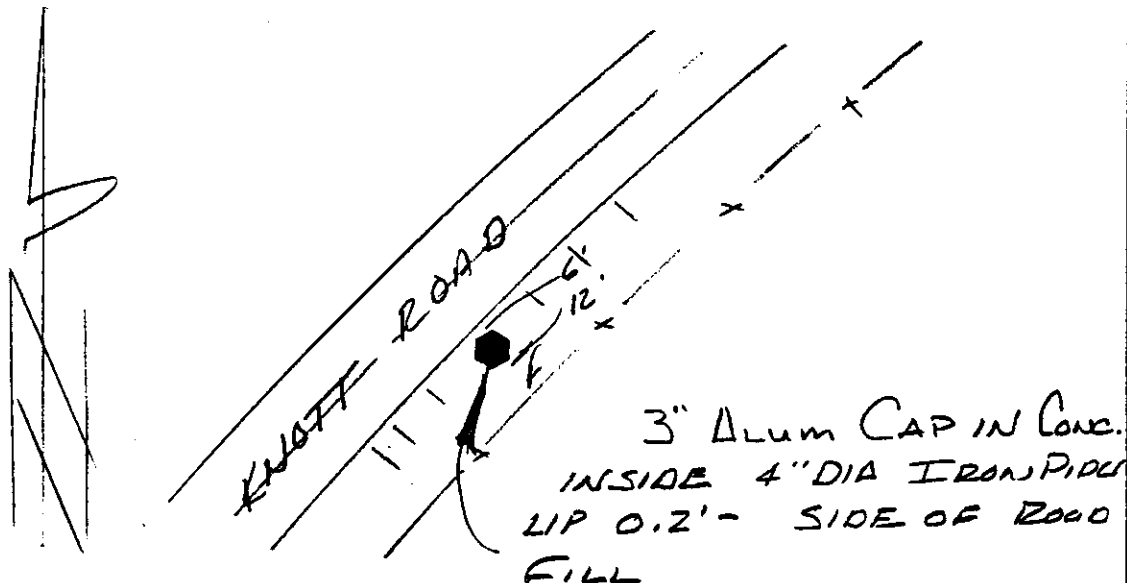
MARK: 18121800 HORIZONTAL ORDER: FIRST

Latitude:	44°00'28.450926"	ONE
Longitude:	121°20'38.484268"	SIGMA
Northing:	367455.1124	ERROR
Easting:	3284029.3556	0.009
Convergence:	-0°02'31.7936"	0.009
Scale Factor:	1.000160291269	
Ellipsoid Height:	3787.5375	0.022
Orthometric Height:	3851.469	0.026
Geoid Height:	-63.9315	

CONTROL MARK DATA

NAME OF MARK: 18122000 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN: W	121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN: N	43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE: DESCHUTES COUNTY		ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT		SCALE ALONG MERIDIAN:	1.000160000000

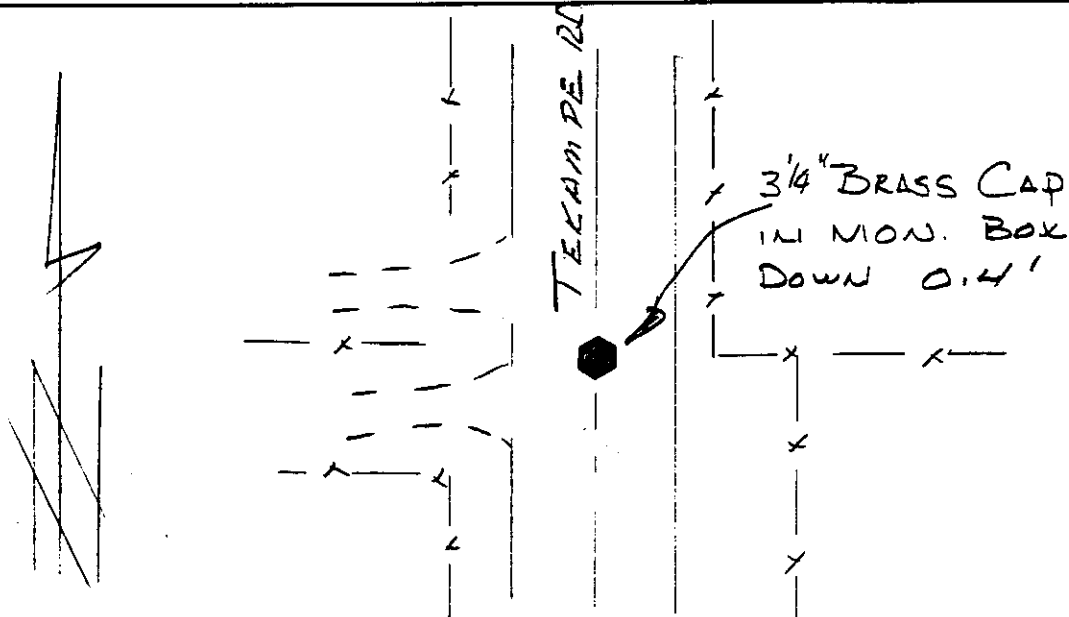
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18122000</u>	HORIZONTAL ORDER: FIRST	
Latitude:	43°59'36.676778"	ONE SIGMA ERROR
Longitude:	121°19'26.512976"	
Northing:	362208.3099	0.007
Easting:	3289287.6867	0.007
Convergence:	-0°01'41.7646"	
Scale Factor:	1.000160131044	
Ellipsoid Height:	3844.8504	0.015
Orthometric Height:	3908.6636	0.017
Geoid Height:	-63.8131	

CONTROL MARK DATA

NAME OF MARK: 18122200 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR ~~1238~~

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

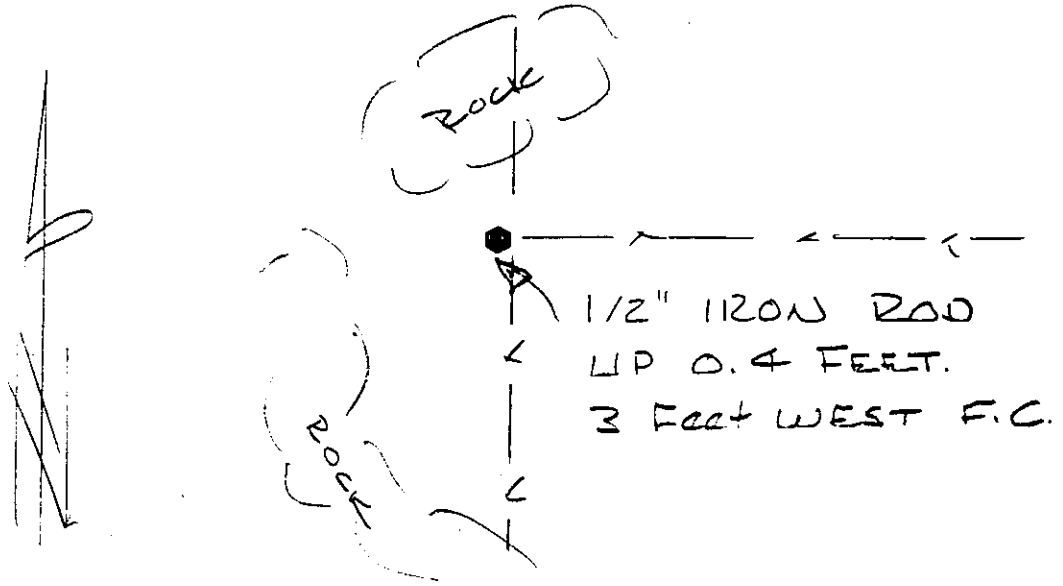
MARK: 18122200 HORIZONTAL ORDER: FIRST

Latitude:	43°59'36.481086"	ONE
Longitude:	121°17'03.104191"	SIGMA
Northing:	362185.8493	ERROR
Easting:	3299773.0365	0.008
Convergence:	-0°00'02.1561"	0.008
Scale Factor:	1.000160000059	
Ellipsoid Height:	3782.5632	0.012
Orthometric Height:	3846.336	0.016
Geoid Height:	-63.7728	

CONTROL MARK DATA

NAME OF MARK: 18122300 COUNTY: DESCHUTES
MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
DATE OF MARK: 1974 COUNTRY: U.S.A.
LOCATION: SECTION 23 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 4127

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

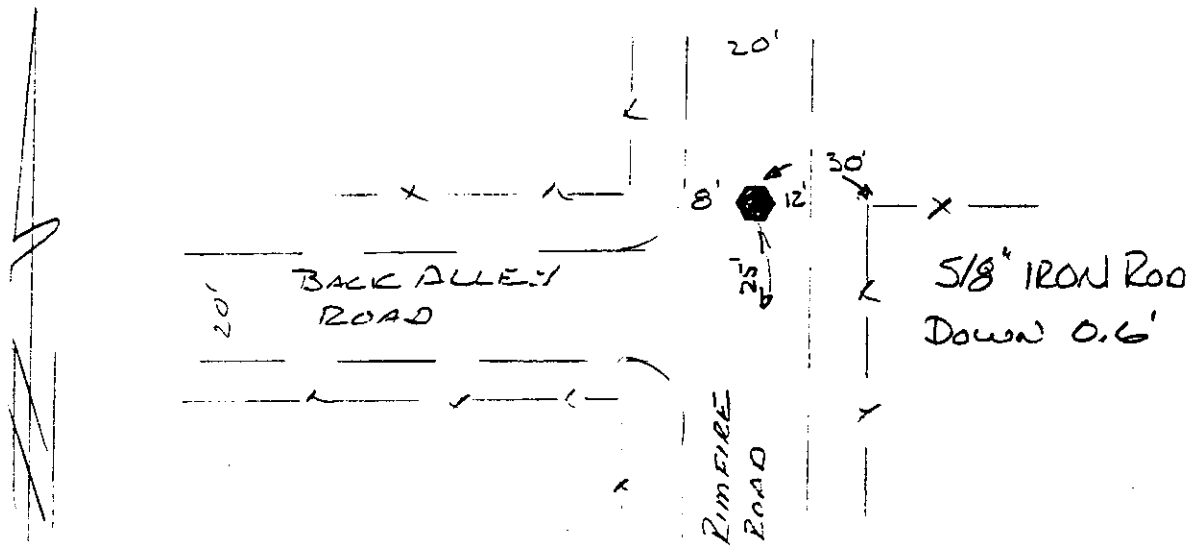
MARK: 18122300 HORIZONTAL ORDER: FIRST

Latitude:	43°59'36.482019"	ONE SIGMA ERROR
Longitude:	121°15'51.177887"	
Northing:	362186.5257	0.010
Easting:	3305031.9414	0.010
Convergence:	+0°00'47.8022"	
Scale Factor:	1.000160028915	
Ellipsoid Height:	3830.4342	0.015
Orthometric Height:	3894.185	0.017
Geoid Height:	-63.7508	

CONTROL MARK DATA

NAME OF MARK: 18122400 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1974 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4127

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

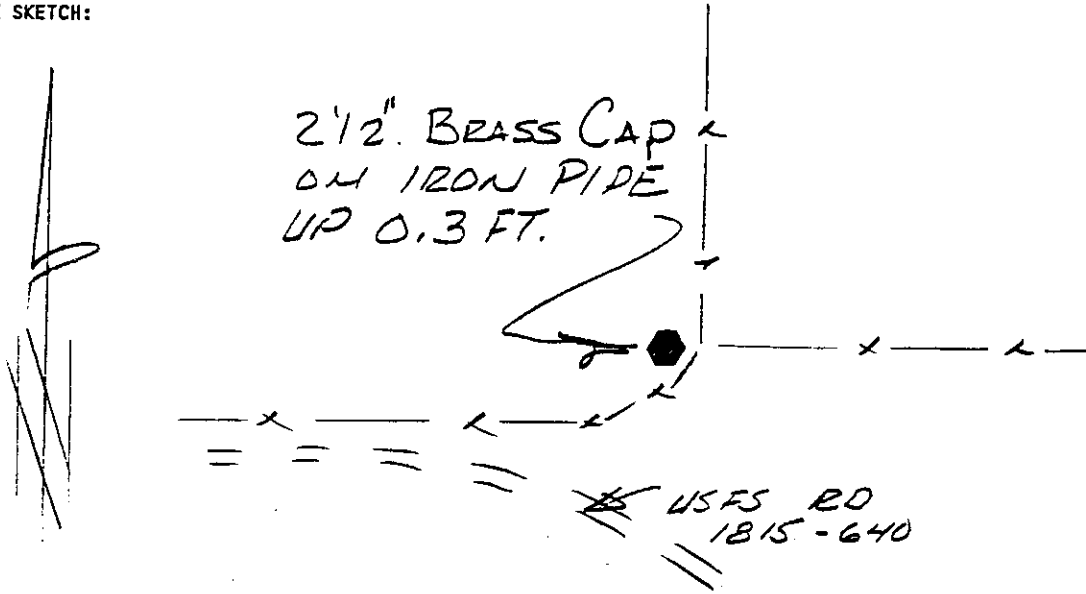
MARK: 18122400 HORIZONTAL ORDER: FIRST

Latitude:	43°59'36.269249"	ONE
Longitude:	121°14'39.083212"	SIGMA
		ERROR
Northing:	362166.8383	0.008
Easting:	3310303.1669	0.008
Convergence:	+0°01'37.8774"	
Scale Factor:	1.000160121225	
Ellipsoid Height:	3748.0927	0.014
Orthometric Height:	3811.8212	0.016
Geoid Height:	-63.7285	

CONTROL MARK DATA

NAME OF MARK: 18122500 COUNTY: DESCHUTES
MARK SET BY: LS 0706 BRUCE W. A. ROGERS STATE: OREGON
DATE OF MARK: 1975 COUNTRY: U.S.A.
LOCATION: SECTION 25 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 0414

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

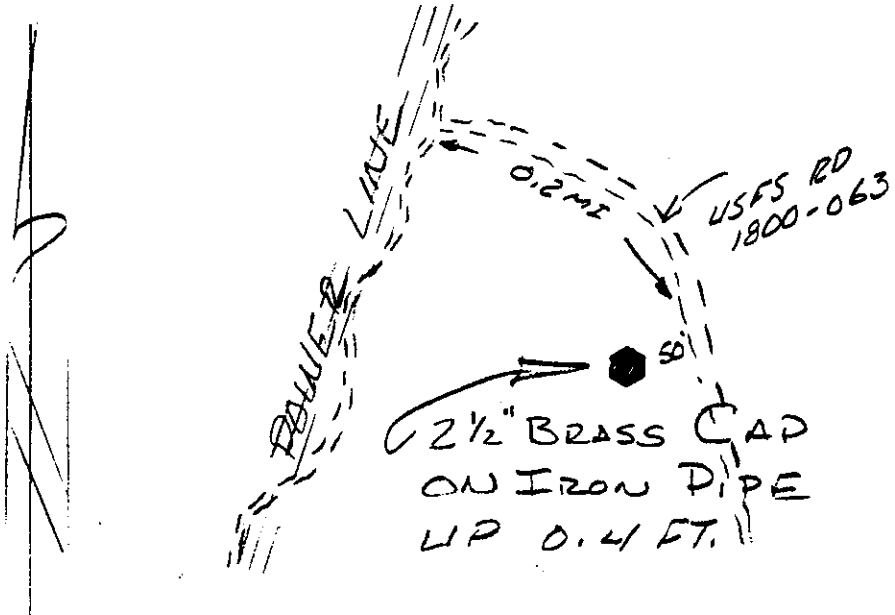
MARK: 18122500 HORIZONTAL ORDER: FIRST

Latitude:	43°58'43.602988"	ONE SIGMA ERROR
Longitude:	121°14'39.962229"	
Northing:	356832.9019	0.010
Easting:	3310241.4123	0.010
Convergence:	+0°01'37.2411"	
Scale Factor:	1.000160119776	
Ellipsoid Height:	3887.8881	0.015
Orthometric Height:	3951.4729	0.017
Geoid Height:	-63.5848	

CONTROL MARK DATA

NAME OF MARK: 18122600 COUNTY: DESCHUTES
 MARK SET BY: LS 0706 BRUCE W. A. ROGERS STATE: OREGON
 DATE OF MARK: 1977 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

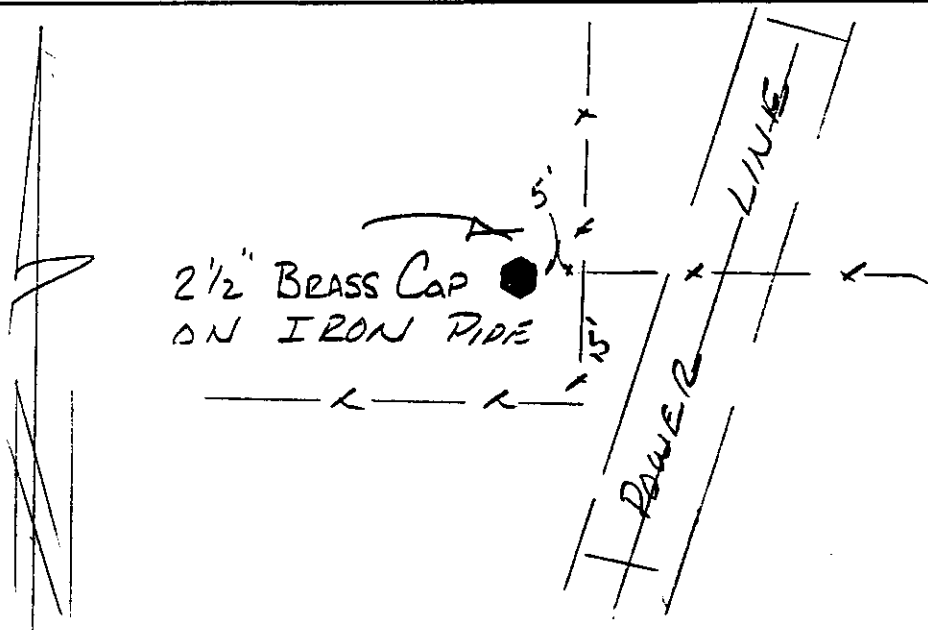
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18122600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°58'44.183769"	ONE SIGMA ERROR
Longitude:	121°15'51.330145"	
Northing:	356889.8882	0.013
Easting:	3305022.0336	0.013
Convergence:	+0°00'47.6839"	
Scale Factor:	1.000160028801	
Ellipsoid Height:	3956.2963	0.020
Orthometric Height:	4019.9052	0.022
Geoid Height:	-63.6089	

CONTROL MARK DATA

NAME OF MARK: 18122640 COUNTY: DESCHUTES
 MARK SET BY: LS 0706 BRUCE W. A. ROGERS STATE: OREGON
 DATE OF MARK: 1977 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

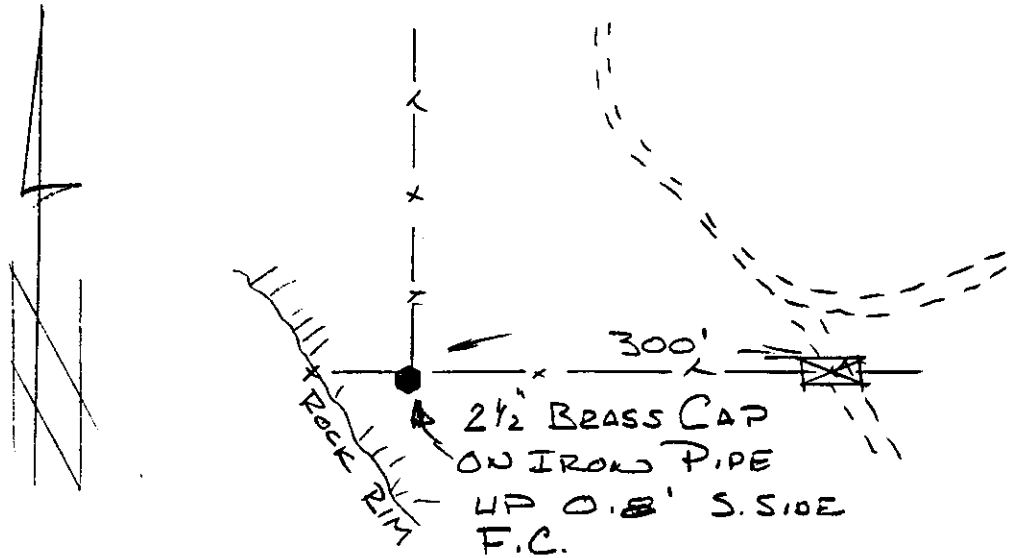
MARK: 18122640 HORIZONTAL ORDER: FIRST

Latitude:	43°59'10.326874"	ONE SIGMA ERROR
Longitude:	121°15'51.274832"	
Northing:	359537.5952	0.014
Easting:	3305025.4662	0.014
Convergence:	+0°00'47.7286"	
Scale Factor:	1.000160028841	
Ellipsoid Height:	3853.9127	0.022
Orthometric Height:	3917.5927	0.024
Geoid Height:	-63.6799	

CONTROL MARK DATA

NAME OF MARK: 18122740 COUNTY: DESCHUTES
MARK SET BY: LS 0706 BRUCE W. A. ROGERS STATE: OREGON
DATE OF MARK: 1975 COUNTRY: U.S.A.
LOCATION: SECTION 27 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 0415

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

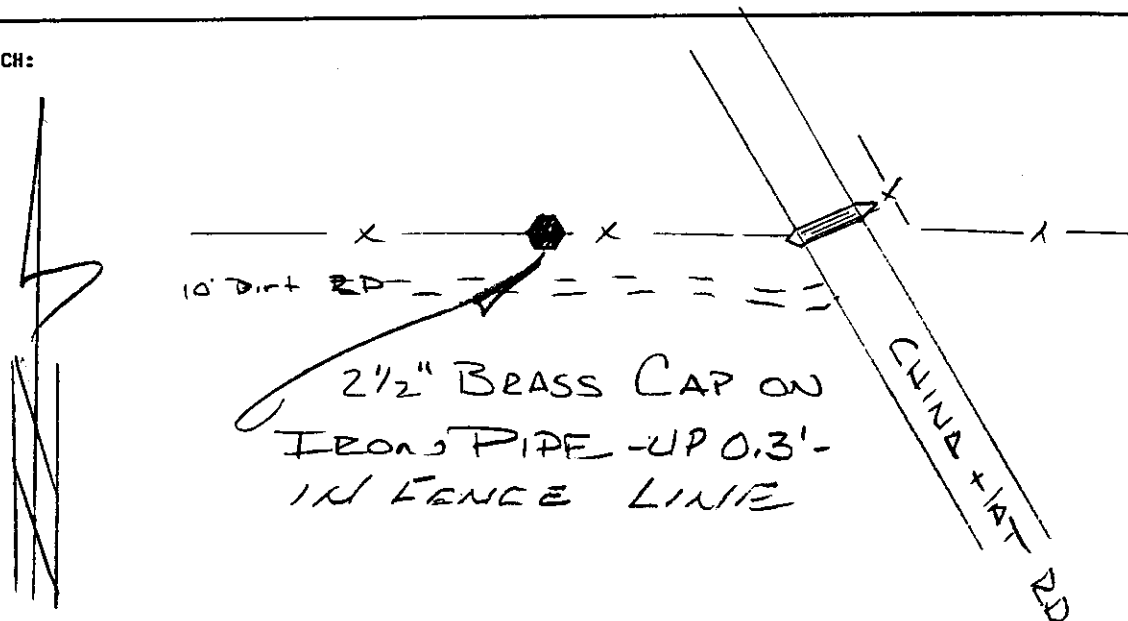
MARK: 18122740 HORIZONTAL ORDER: FIRST

Latitude:	43°59'10.451134"	ONE SIGMA ERROR
Longitude:	121°17'03.395307"	
Northing:	359549.6	0.016
Easting:	3299751.7213	0.016
Convergence:	-0°00'02.3580"	
Scale Factor:	1.000160000070	
Ellipsoid Height:	3855.7521	0.028
Orthometric Height:	3919.4567	0.030
Geoid Height:	-63.7046	

CONTROL MARK DATA

NAME OF MARK: 18122840 COUNTY: DESCHUTES
 MARK SET BY: LS 0706 BRUCE W. A. ROGERS STATE: OREGON
 DATE OF MARK: 1975 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 418

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN: W	121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN: N	43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

GEODETIC AND MAPPING COORDINATES

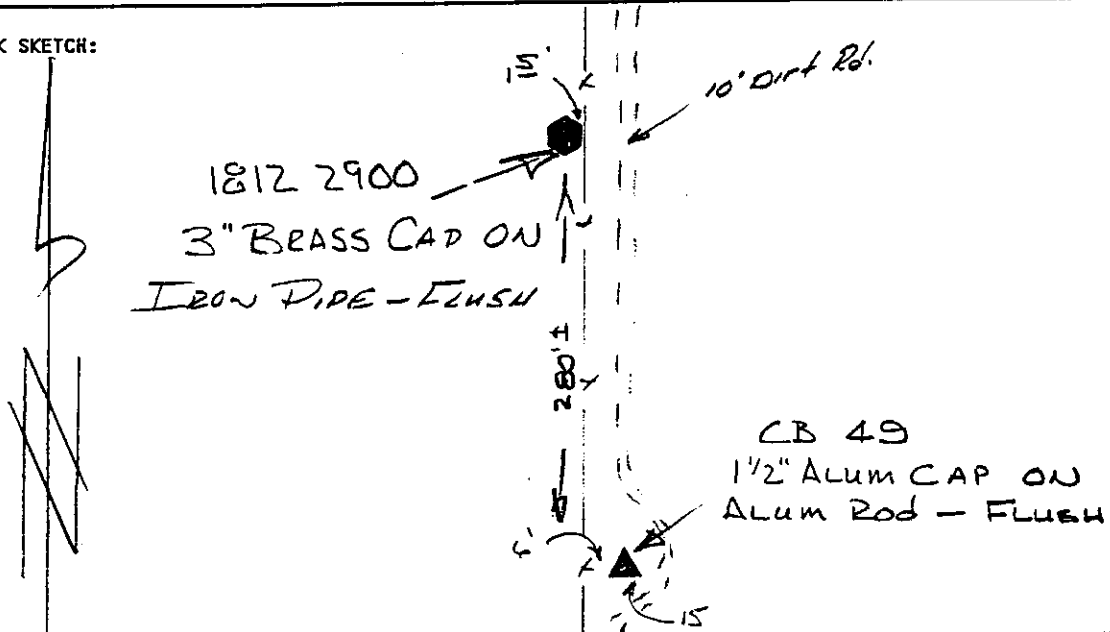
MARK: 18122840 HORIZONTAL ORDER: FIRST

Latitude:	43°59'10.339545"	ONE
Longitude:	121°18'15.256349"	SIGMA
		ERROR
Northing:	359538.9943	0.011
Easting:	3294496.9474	0.007
Convergence:	-0°00'52.2644"	
Scale Factor:	1.000160034583	
Ellipsoid Height:	3893.7431	0.022
Orthometric Height:	3957.473	0.026
Geoid Height:	-63.7298	

CONTROL MARK DATA

NAME OF MARK: 18122900 COUNTY: DESCHUTES
 MARK SET BY: U.S. DEPT. INT. (B L M) STATE: OREGON
 DATE OF MARK: 1976 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

MARK: 18122900 HORIZONTAL ORDER: SECOND

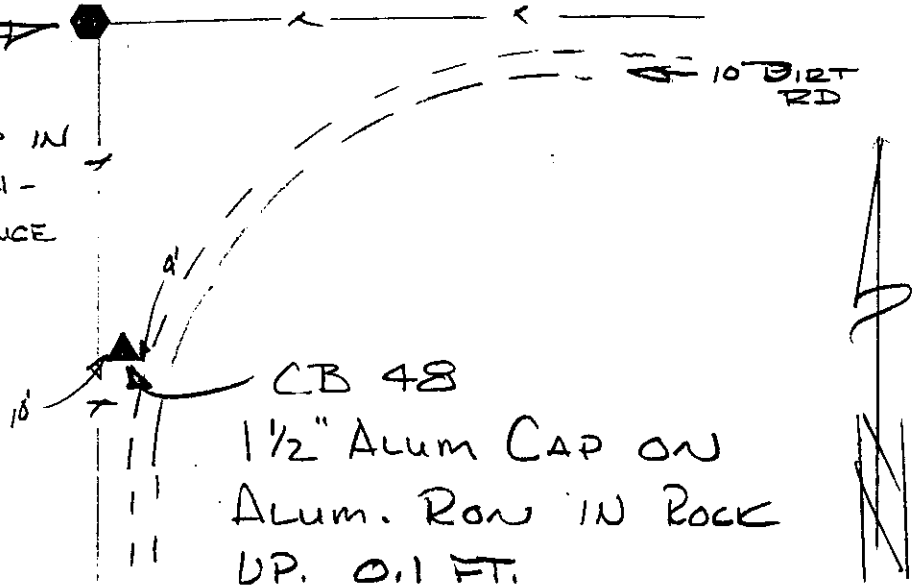
Latitude:	43°58'44.561697"	ONE SIGMA ERROR
Longitude:	121°19'27.551295"	
Northing:	356930.2634	0.015
Easting:	3289209.1478	0.016
Convergence:	-0°01'42.4589"	
Scale Factor:	1.000160132973	
Ellipsoid Height:	3969.9112	0.025
Orthometric Height:	4033.592	0.029
Geoid Height:	-63.6808	

CONTROL MARK DATA

NAME OF MARK: 18122940 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1982 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4062

MARK SKETCH:

1812 2940
 2" BRASS CAP IN
 CONK. - FLUSH -
 0.3' NW FENCE
 COR.



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

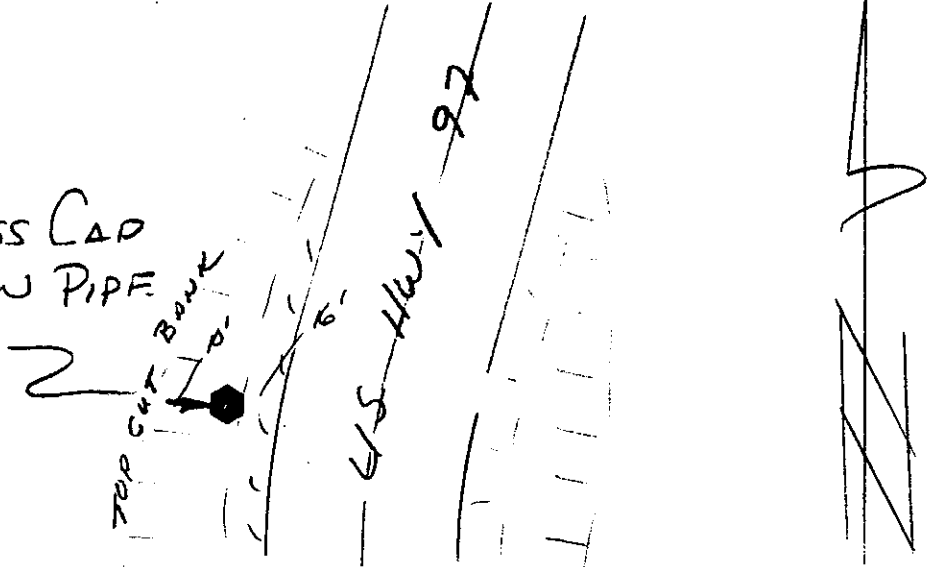
<u>MARK: 18122940</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	43°59'10.635718"	ONE SIGMA ERROR
Longitude:	121°19'27.028983"	
Northing:	359570.954	0.015
Easting:	3289248.6531	0.015
Convergence:	-0°01'42.1096"	
Scale Factor:	1.000160132001	
Ellipsoid Height:	3900.946	0.021
Orthometric Height:	3964.692	0.023
Geoid Height:	-63.746	

CONTROL MARK DATA

NAME OF MARK: 18123000 COUNTY: DESCHUTES
 MARK SET BY: LS 1642 ROBERT KARL STATE: OREGON
 DATE OF MARK: 1981 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4196

MARK SKETCH:

2 1/2" BRASS CAP
 ON 2" IRON PIPE
 FLUSH



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

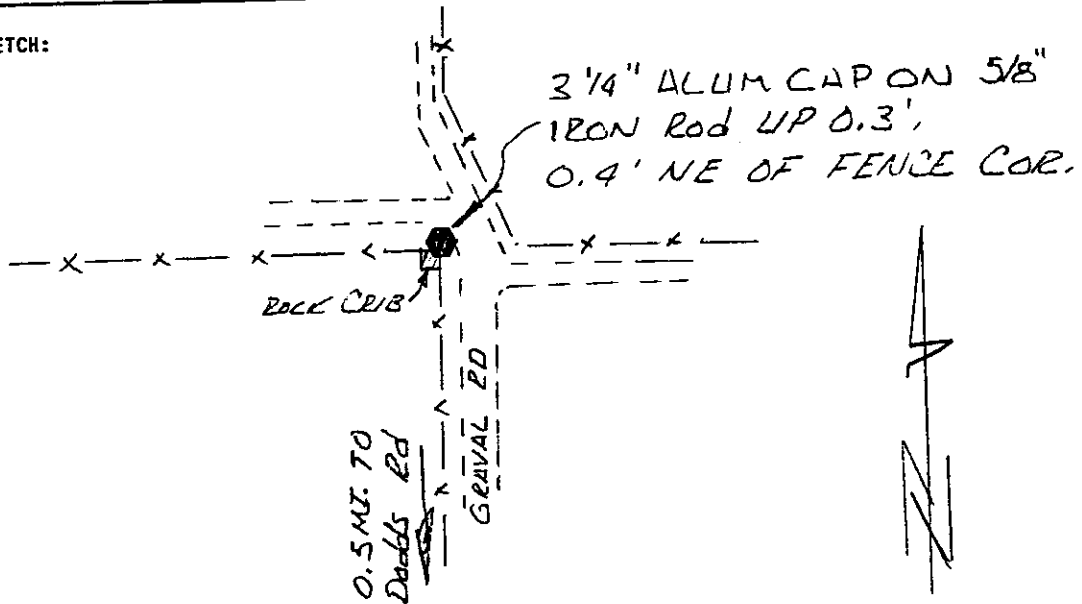
GEODETIC AND MAPPING COORDINATES

<u>MARK: 18123000</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°58'44.448369"	ONE
Longitude:	121°20'39.750232"	SIGMA
		ERROR
Northing:	356922.0504	0.008
Easting:	3283929.0225	0.009
Convergence:	-0°02'32.5935"	
Scale Factor:	1.000160294942	
Ellipsoid Height:	3905.8726	0.019
Orthometric Height:	3969.568	0.024
Geoid Height:	-63.6954	

CONTROL MARK DATA

NAME OF MARK: 18130100 COUNTY: DESCHUTES
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0762

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

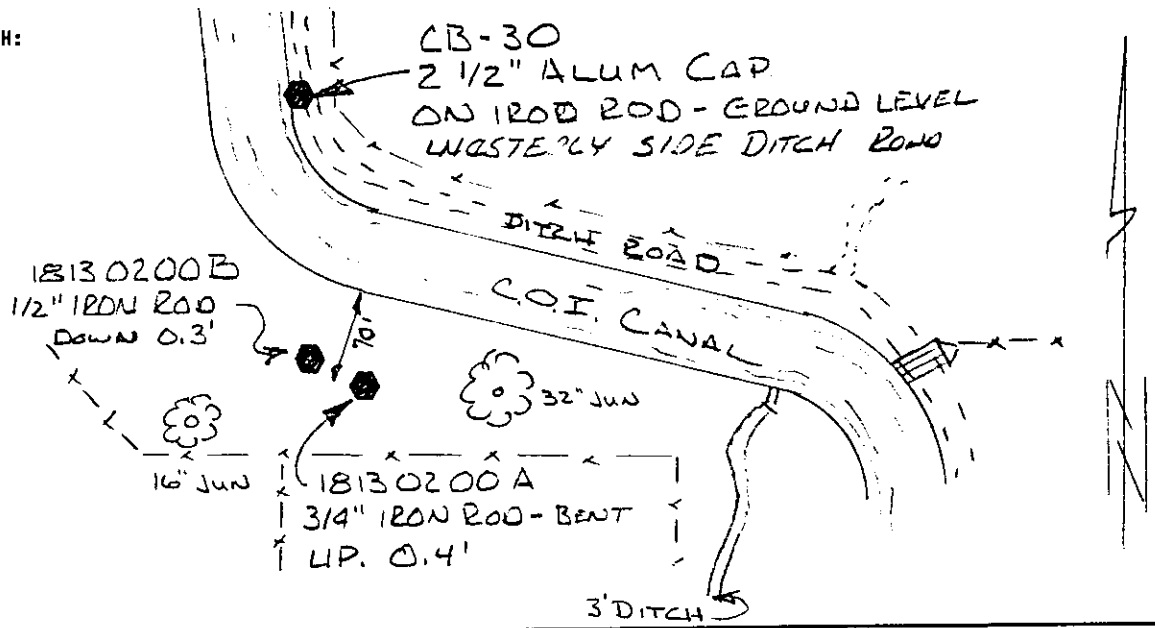
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18130100</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°02'12.121180"	ONE SIGMA ERROR
Longitude:	121°07'23.685240"	
Northing:	377989.6541	0.009
Easting:	3342106.7582	0.009
Convergence:	+0°06'40.6079"	
Scale Factor:	1.000162024650	
Ellipsoid Height:	3431.6808	0.014
Orthometric Height:	3495.5877	0.016
Geoid Height:	-63.9068	

CONTROL MARK DATA

NAME OF MARK: 18130200A COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4217

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

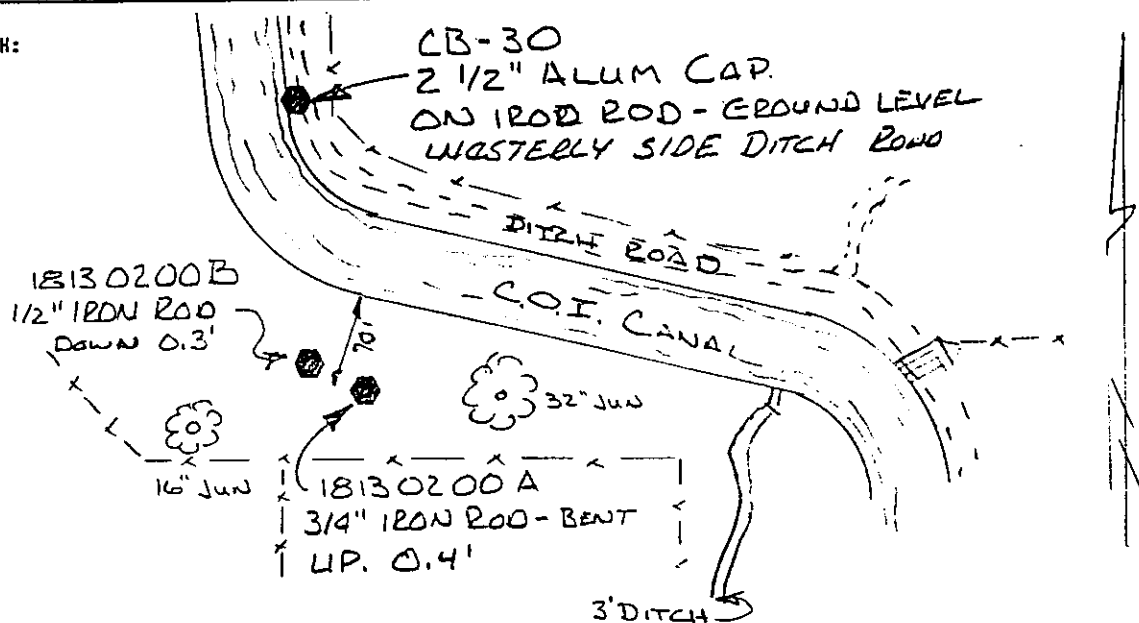
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18130200A</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°02'12.177254"	ONE SIGMA ERROR
Longitude:	121°08'36.076587"	
Northing:	377985.7059	0.016
Easting:	3336817.6854	0.012
Convergence:	+0°05'50.2872"	
Scale Factor:	1.000161547958	
Ellipsoid Height:	3484.464	0.020
Orthometric Height:	3548.3966	0.021
Geoid Height:	-63.9326	

CONTROL MARK DATA

NAME OF MARK: 18130200B COUNTY: DESCHUTES
 MARK SET BY: LS 0010 AL MANSFIELD STATE: OREGON
 DATE OF MARK: 1940+- COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 7572

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

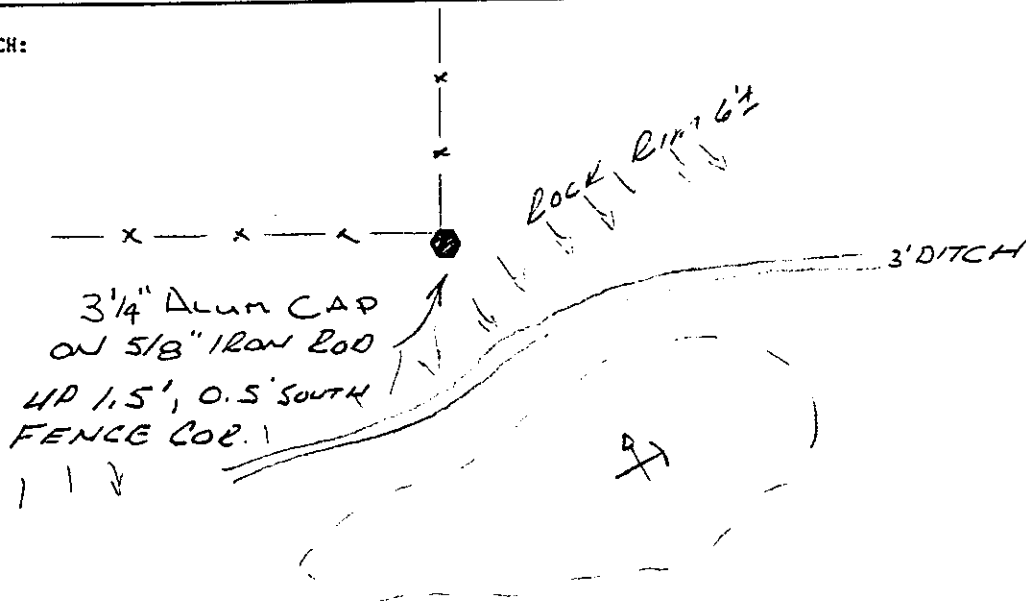
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18130200B</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°02'12.221857"	ONE SIGMA ERROR
Longitude:	121°08'36.136243"	
Northing:	377990.2158	0.016
Easting:	3336813.3191	0.009
Convergence:	+0°05'50.2458"	
Scale Factor:	1.000161547591	
Ellipsoid Height:	3483.8137	0.020
Orthometric Height:	3547.7464	0.021
Geoid Height:	-63.9327	

CONTROL MARK DATA

NAME OF MARK: 18130300 COUNTY: DESCHUTES
 MARK SET BY: LS 2111 WALTER MILLER STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0910

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

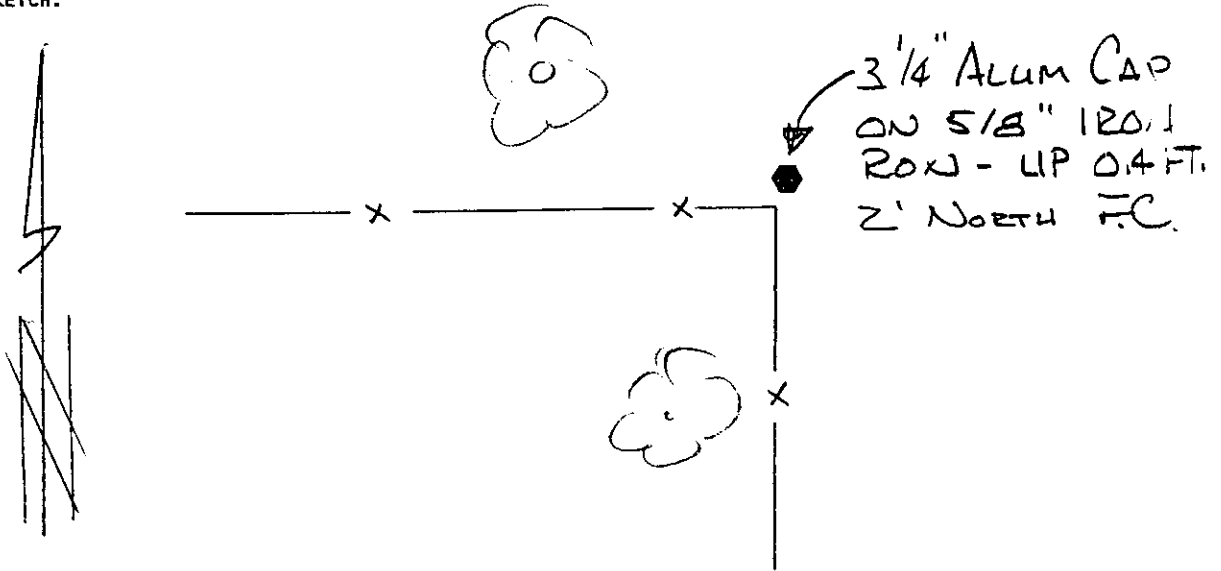
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18130300</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°02'12.310161"	ONE SIGMA ERROR
Longitude:	121°09'48.103297"	
Northing:	377990.8684	0.008
Easting:	3331555.2453	0.008
Convergence:	+0°05'00.2201"	
Scale Factor:	1.000161137075	
Ellipsoid Height:	3532.0149	0.012
Orthometric Height:	3595.9818	0.013
Geoid Height:	-63.9669	

CONTROL MARK DATA

NAME OF MARK: 18130400 COUNTY: DESCHUTES
 MARK SET BY: LS 2111 WALTER MILLER STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 0908

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

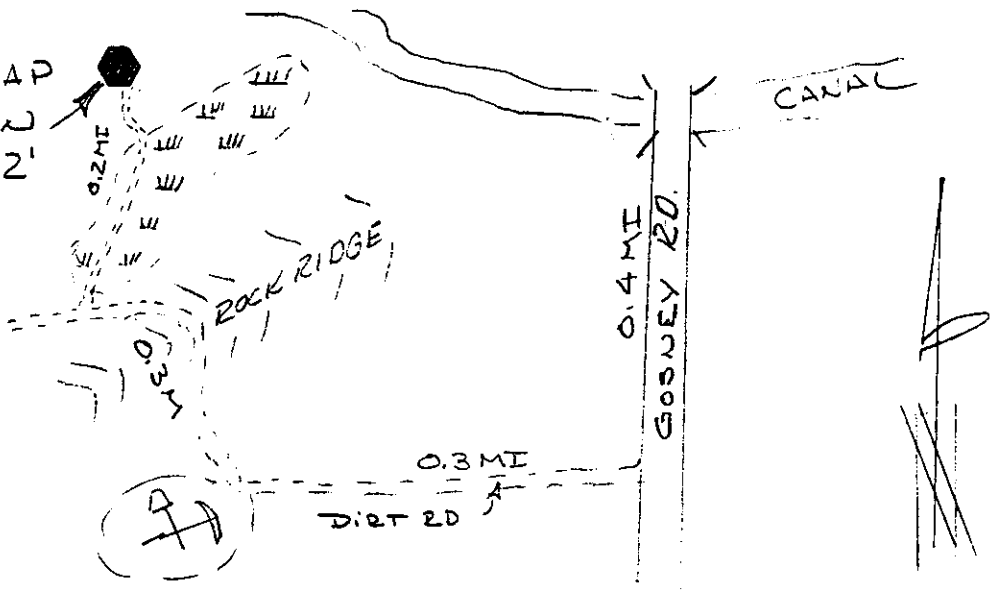
<u>MARK: 18130400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'12.191463"	ONE
Longitude:	121°10'59.986507"	SIGMA
Northing:	377971.8387	ERROR
Easting:	3326303.3272	0.008
Convergence:	+0°04'10.2524"	0.008
Scale Factor:	1.000160790073	
Ellipsoid Height:	3555.3325	0.013
Orthometric Height:	3619.338	0.015
Geoid Height:	-64.0055	

CONTROL MARK DATA

NAME OF MARK: 18130500 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0775

MARK SKETCH:

3/4" ALUM CAP
 ON 5/8" IRON
 ROD, UP 0.2'



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

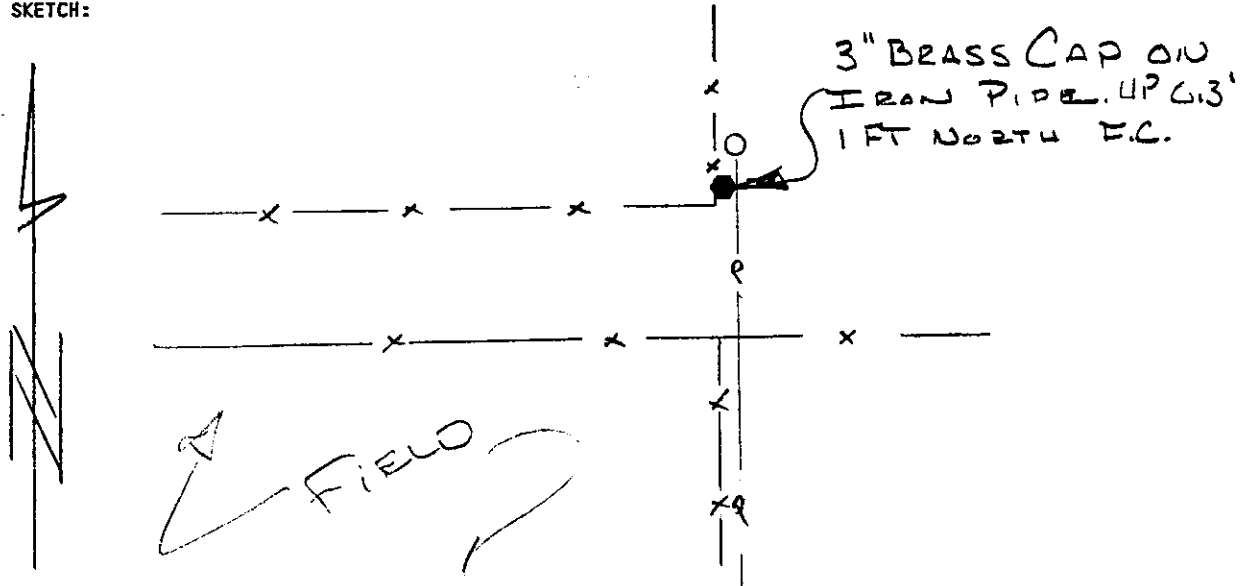
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18130500</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°02'12.158265"	ONE SIGMA ERROR
Longitude:	121°12'12.374957"	
Northing:	377962.7049	0.011
Easting:	3321014.4811	0.011
Convergence:	+0°03'19.9337"	
Scale Factor:	1.000160504293	
Ellipsoid Height:	3543.4747	0.017
Orthometric Height:	3607.5117	0.019
Geoid Height:	-64.037	

CONTROL MARK DATA

NAME OF MARK: 18130600 COUNTY: DESCHUTES
MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 6 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 1172

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

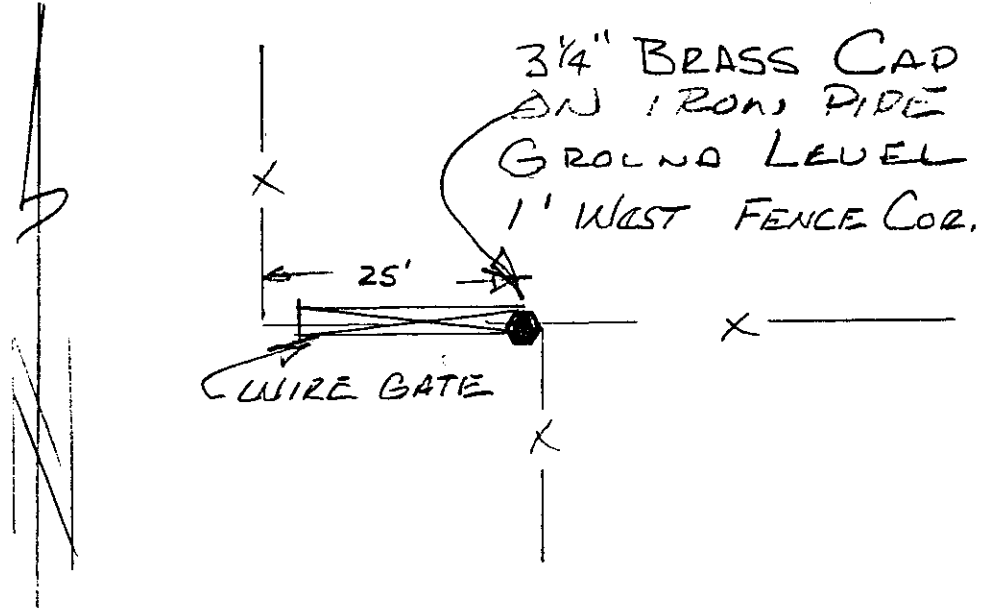
MARK: 18130600 HORIZONTAL ORDER: FIRST

Latitude:	44°02'12.030617"	ONE
Longitude:	121°13'25.082633"	SIGMA
Northing:	377945.2786	ERROR
Easting:	3315702.317	0.009
Convergence:	+0°02'29.3931"	0.009
Scale Factor:	1.000160281562	
Ellipsoid Height:	3649.4416	0.019
Orthometric Height:	3713.509	0.020
Geoid Height:	-64.0674	

CONTROL MARK DATA

NAME OF MARK: 18130640 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

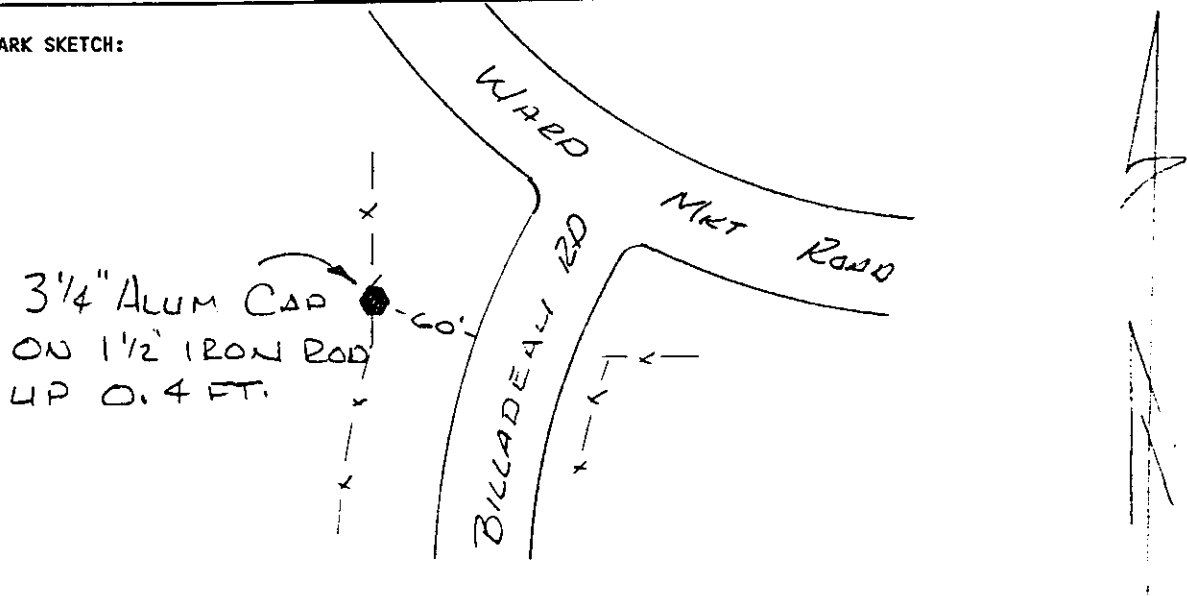
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18130640</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'38.118941"	ONE SIGMA ERROR
Longitude:	121°13'24.656899"	
Northing:	380587.486	0.010
Easting:	3315731.5045	0.010
Convergence:	+0°02'29.7086"	
Scale Factor:	1.000160282609	
Ellipsoid Height:	3612.7551	0.017
Orthometric Height:	3676.8737	0.018
Geoid Height:	-64.1186	

CONTROL MARK DATA

NAME OF MARK: 18130700 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1170

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

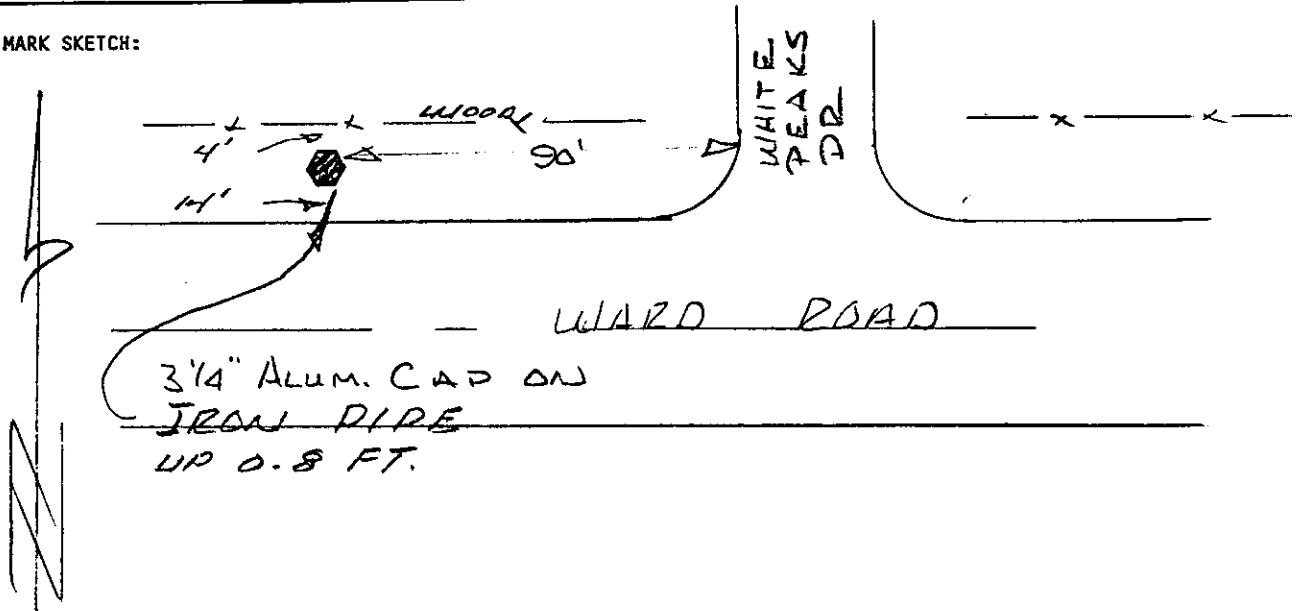
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18130700</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°01'19.724198"	ONE SIGMA ERROR
Longitude:	121°13'26.026964"	
Northing:	372647.7262	0.008
Easting:	3315637.1418	0.008
Convergence:	+0°02'28.6977"	
Scale Factor:	1.000160279230	
Ellipsoid Height:	3679.7393	0.015
Orthometric Height:	3743.7019	0.018
Geoid Height:	-63.9626	

CONTROL MARK DATA

NAME OF MARK: 18130704 COUNTY: DESCHUTES
MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 7 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 0776

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

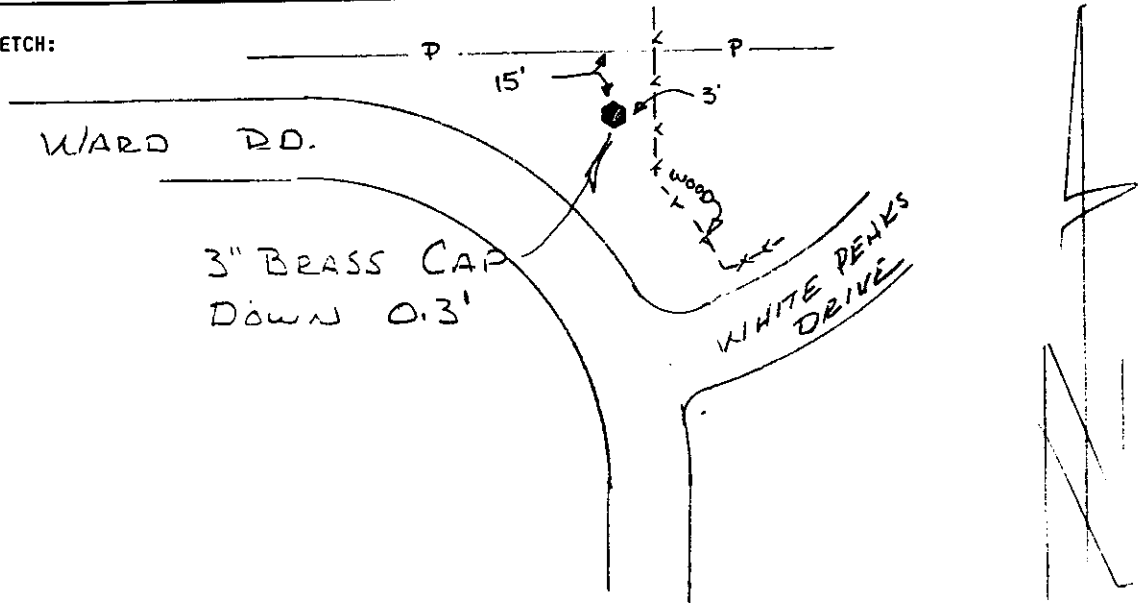
MARK: 18130704 HORIZONTAL ORDER: FIRST

Latitude:	44°01'19.941610"	ONE SIGMA ERROR
Longitude:	121°12'48.715470"	
Northing:	372671.8824	0.010
Easting:	3318363.8458	0.010
Convergence:	+0°02'54.6270"	
Scale Factor:	1.000160385101	
Ellipsoid Height:	3657.5595	0.020
Orthometric Height:	3721.5082	0.022
Geoid Height:	-63.9487	

CONTROL MARK DATA

NAME OF MARK: 18130740 COUNTY: DESCHUTES
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 7 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1171

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

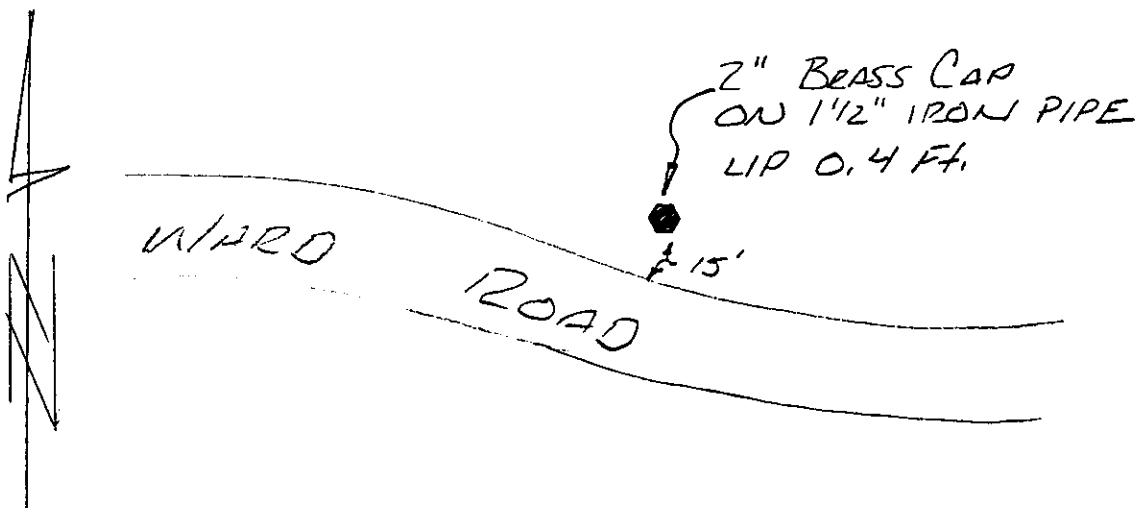
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18130740</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°01'45.877084"	ONE SIGMA ERROR
Longitude:	121°13'25.555540"	
Northing:	375296.4679	0.009
Easting:	3315669.6796	0.009
Convergence:	+0°02'29.0448"	
Scale Factor:	1.000160280393	
Ellipsoid Height:	3647.1262	0.018
Orthometric Height:	3711.1402	0.020
Geoid Height:	-64.014	

CONTROL MARK DATA

NAME OF MARK: 18130800 COUNTY: DESCHUTES
MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 0777

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

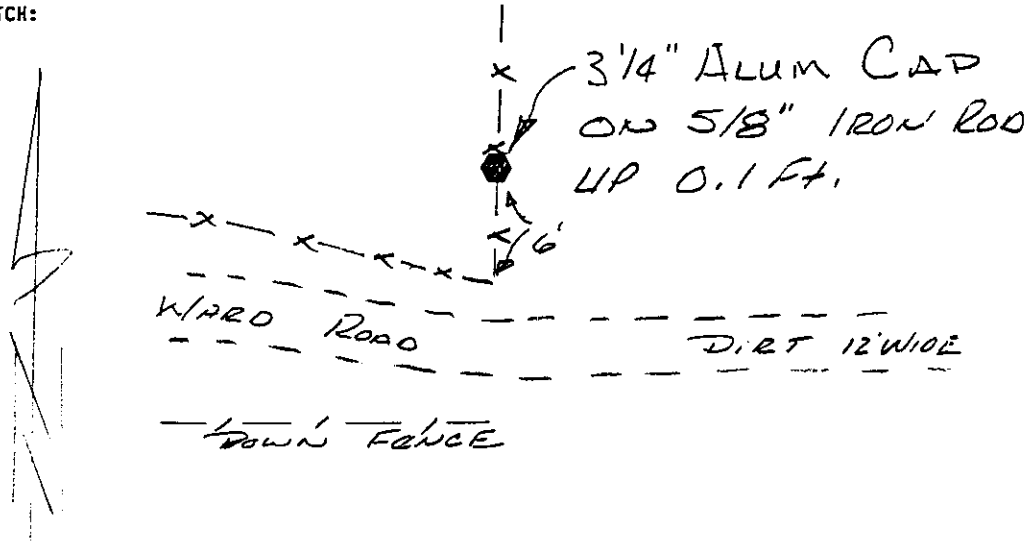
MARK: 18130800 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°01'19.835282"</u>	ONE
Longitude:	<u>121°12'12.482509"</u>	SIGMA
Northing:	<u>372663.5171</u>	ERROR
Easting:	<u>3321011.757</u>	0.009
Convergence:	<u>+0°03'19.8065"</u>	0.009
Scale Factor:	<u>1.000160504164</u>	
Ellipsoid Height:	<u>3617.0068</u>	0.015
Orthometric Height:	<u>3680.9417</u>	0.018
Geoid Height:	<u>-63.9348</u>	

CONTROL MARK DATA

NAME OF MARK: 18130900 COUNTY: DESCHUTES
MARK SET BY: LS 2257 RUSSELL KARL STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 9 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR 0893

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDITIC AND MAPPING COORDINATES

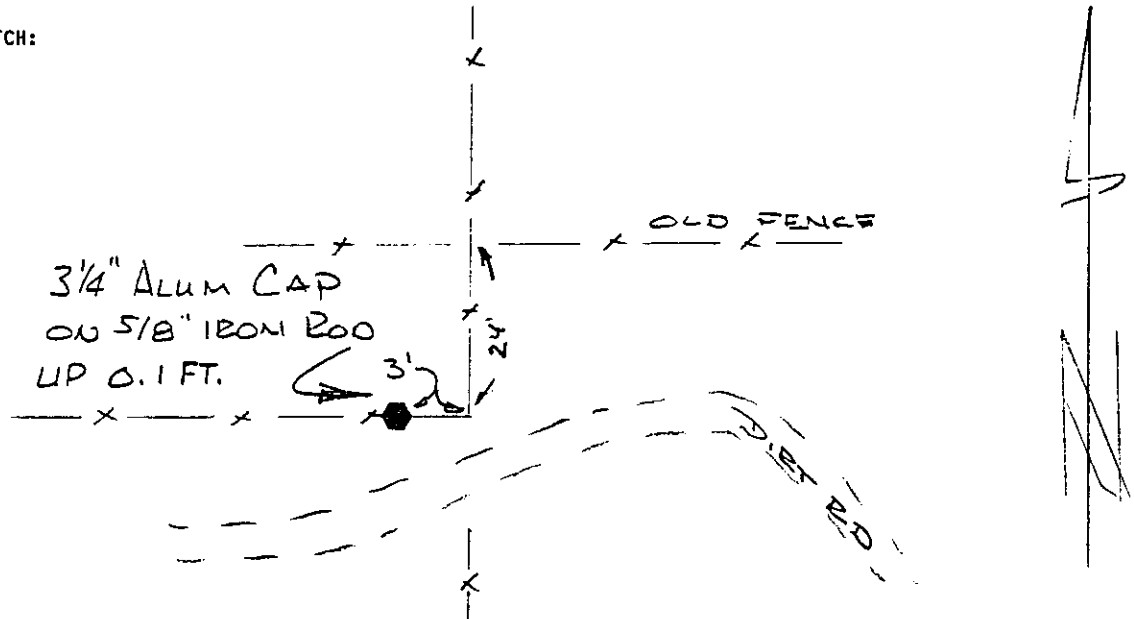
MARK: 18130900 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°01'20.118580"</u>	ONE SIGMA ERROR
Longitude:	<u>121°11'00.131736"</u>	
Northing:	<u>372697.9753</u>	0.009
Easting:	<u>3326299.1116</u>	0.009
Convergence:	<u>+0°04'10.0862"</u>	
Scale Factor:	<u>1.000160789823</u>	
Ellipsoid Height:	<u>3630.9359</u>	0.014
Orthometric Height:	<u>3694.8438</u>	0.017
Geoid Height:	<u>-63.908</u>	

CONTROL MARK DATA

NAME OF MARK: 18131000 COUNTY: DESCHUTES
 MARK SET BY: LS 2111 WALTER MILLER STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0911

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

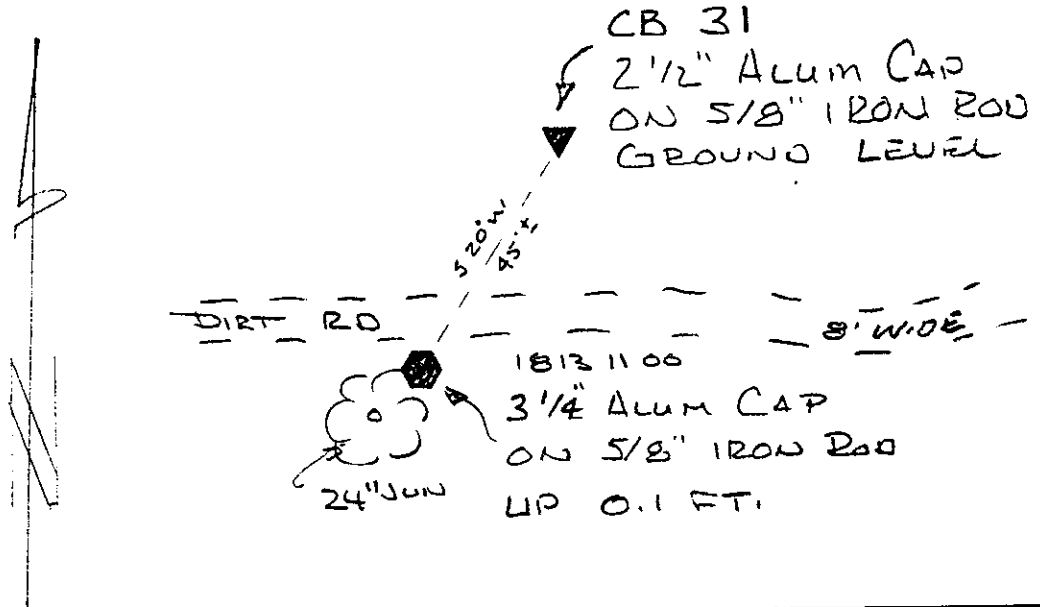
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131000</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'20.076930"	ONE SIGMA ERROR
Longitude:	121°09'48.562966"	
Northing:	372700.729	0.010
Easting:	3331529.3515	0.010
Convergence:	+0°04'59.8220"	
Scale Factor:	1.000161135214	
Ellipsoid Height:	3546.5911	0.015
Orthometric Height:	3610.4662	0.017
Geoid Height:	-63.875	

CONTROL MARK DATA

NAME OF MARK: 18131100 COUNTY: DESCHUTES
 MARK SET BY: LS 0362 ROBERT G LECKLIDER STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4291

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

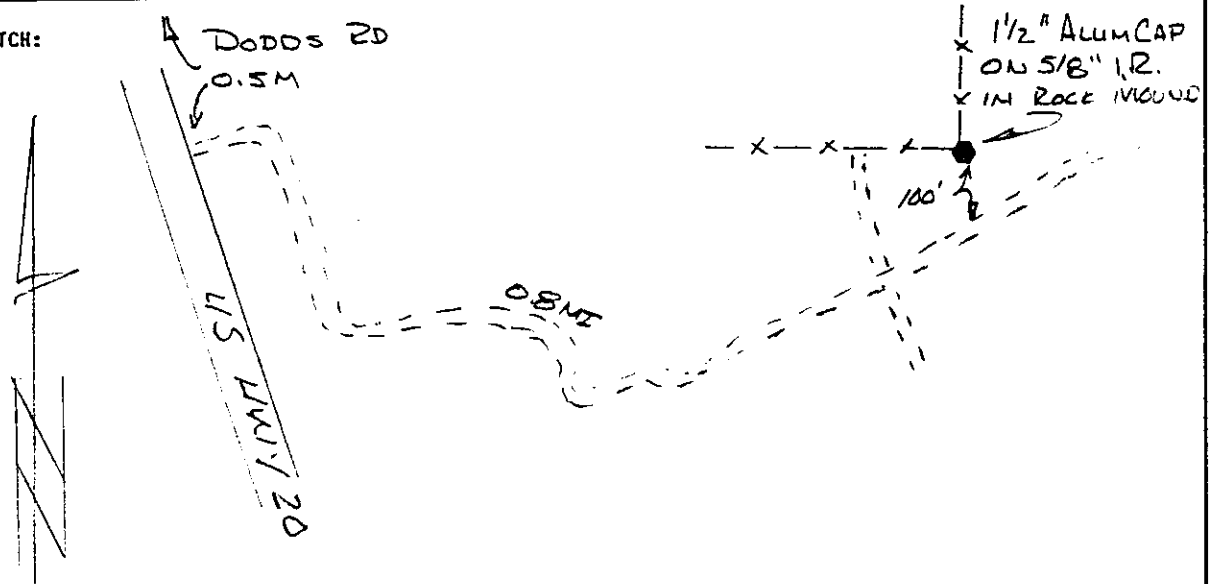
GEODITIC AND MAPPING COORDINATES

MARK: <u>18131100</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°01'20.058181"</u>	ONE SIGMA ERROR
Longitude:	<u>121°08'35.841054"</u>	
Northing:	<u>372707.2063</u>	<u>0.017</u>
Easting:	<u>3336843.8612</u>	<u>0.011</u>
Convergence:	<u>+0°05'50.3593"</u>	
Scale Factor:	<u>1.000161550165</u>	
Ellipsoid Height:	<u>3533.8106</u>	<u>0.020</u>
Orthometric Height:	<u>3597.6606</u>	<u>0.022</u>
Geoid Height:	<u>-63.85</u>	

CONTROL MARK DATA

NAME OF MARK: 18131200 COUNTY: DESCHUTES
 MARK SET BY: LS 1026 DAVE ARMSTRONG STATE: OREGON
 DATE OF MARK: 1984 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4276

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

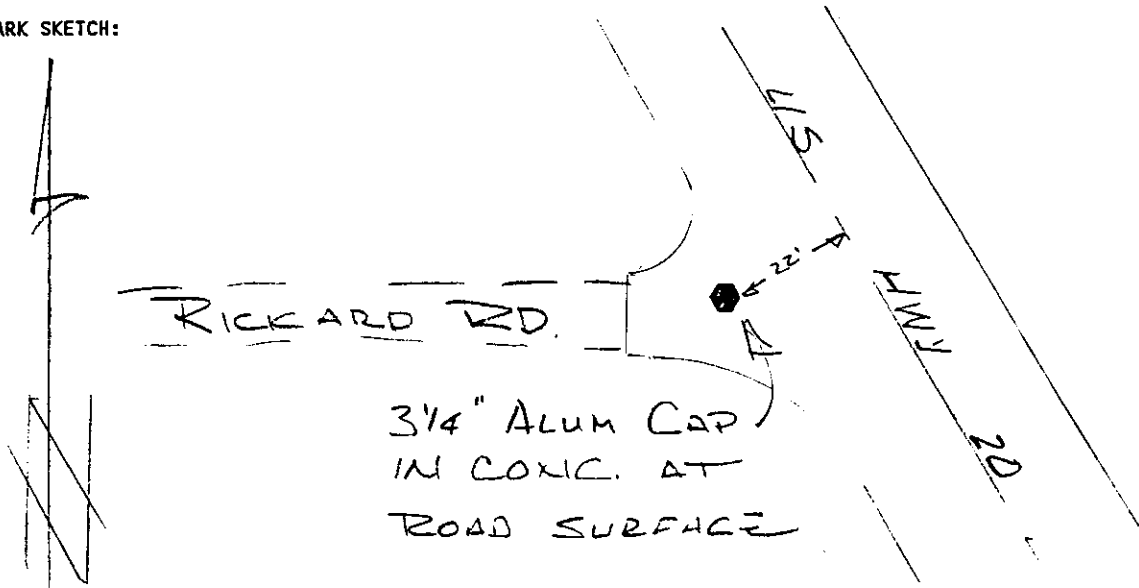
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18131200</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°01'19.906778"	ONE SIGMA ERROR
Longitude:	121°07'23.864379"	
Northing:	372701.4449	0.010
Easting:	3342103.9362	0.010
Convergence:	+0°06'40.3785"	
Scale Factor:	1.000162024386	
Ellipsoid Height:	3449.8914	0.015
Orthometric Height:	3513.7321	0.017
Geoid Height:	-63.8406	

CONTROL MARK DATA

NAME OF MARK: 18131300 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1021

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

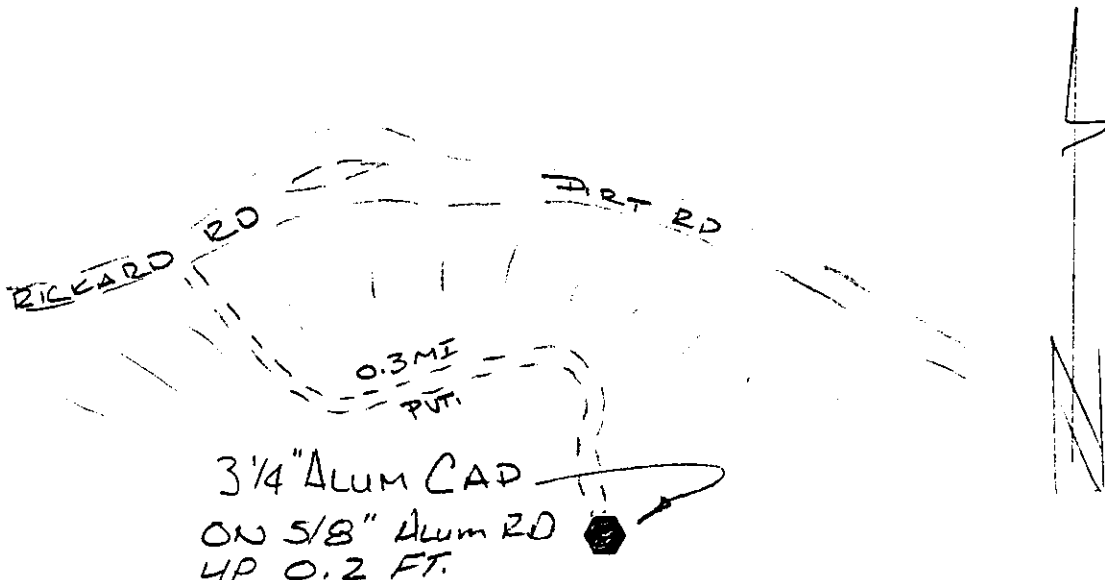
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°00'27.759705"</u>	ONE SIGMA ERROR
Longitude:	<u>121°07'24.150295"</u>	
Northing:	<u>367420.0529</u>	<u>0.008</u>
Easting:	<u>3342093.2866</u>	<u>0.008</u>
Convergence:	<u>+0°06'40.0751"</u>	
Scale Factor:	<u>1.000162023368</u>	
Ellipsoid Height:	<u>3514.6167</u>	<u>0.012</u>
Orthometric Height:	<u>3578.3667</u>	<u>0.014</u>
Geoid Height:	<u>-63.7499</u>	

CONTROL MARK DATA

NAME OF MARK: 18131400 COUNTY: DESCHUTES
 MARK SET BY: LS 0362 ROBERT G LECKLIDER STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1024

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

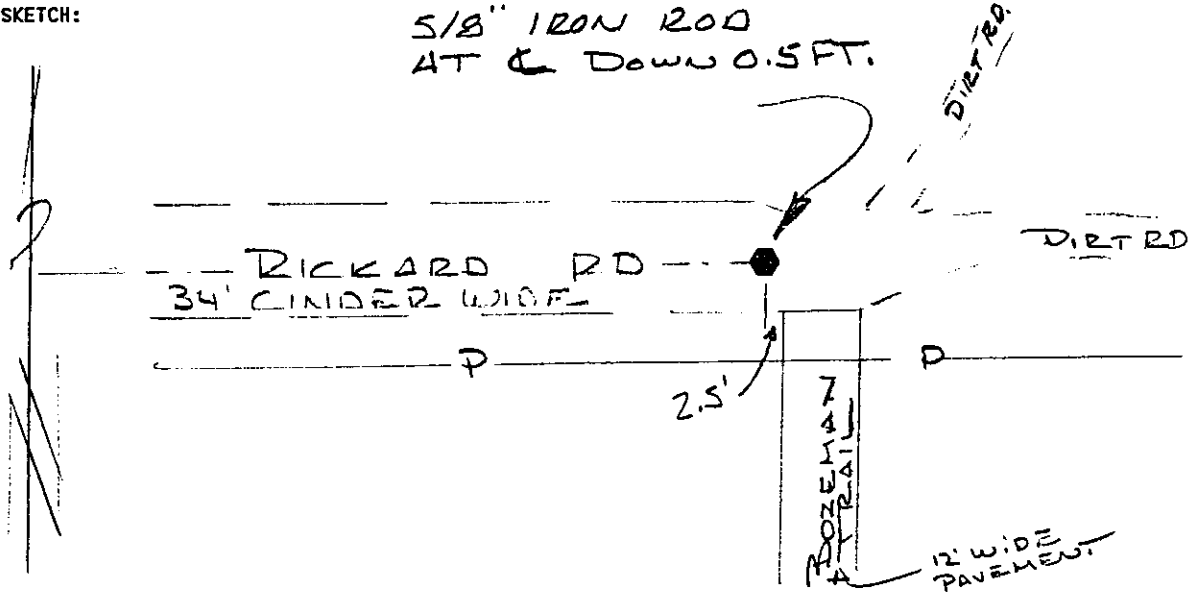
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u>	<u>18131400</u>	HORIZONTAL ORDER:	FIRST
Latitude:	44°00'27.846579"	ONE	
Longitude:	121°08'36.331140"	SIGMA	
Northing:	367419.2588	ERROR	
Easting:	3336817.0178	0.011	
Convergence:	+0°05'49.9271"	0.011	
Scale Factor:	1.000161547912		
Ellipsoid Height:	3622.89	0.016	
Orthometric Height:	3686.6408	0.018	
Geoid Height:	-63.7508		

CONTROL MARK DATA

NAME OF MARK: 18131500 COUNTY: DESCHUTES
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0967

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

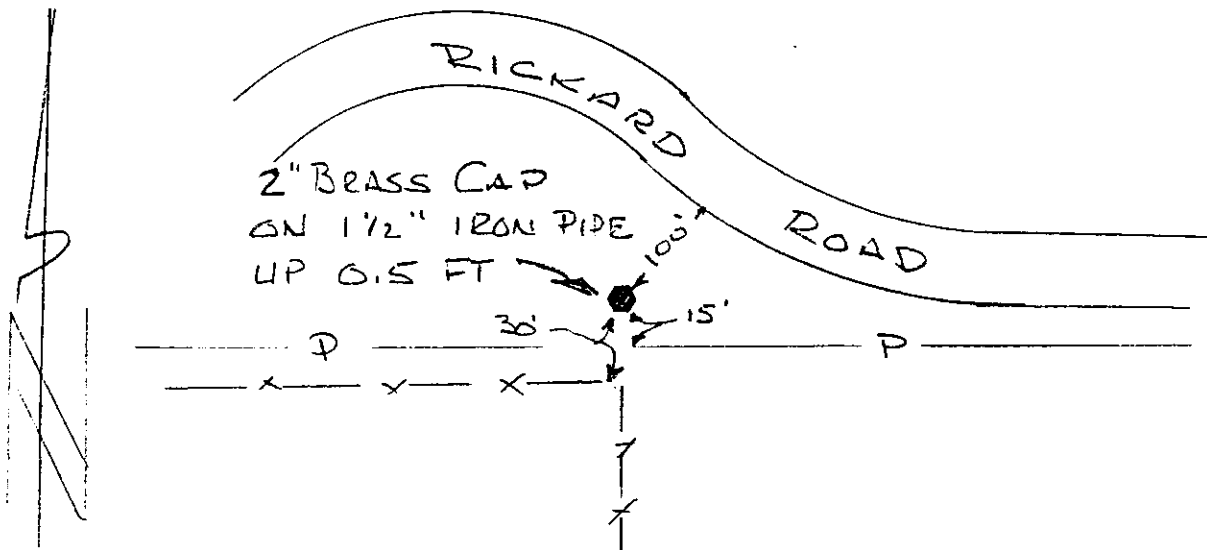
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131500</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°00'27.816443"	ONE SIGMA ERROR
Longitude:	121°09'49.059356"	
Northing:	367407.8388	0.010
Easting:	3331500.7591	0.010
Convergence:	+0°04'59.3986"	
Scale Factor:	1.000161133160	
Ellipsoid Height:	3655.0667	0.015
Orthometric Height:	3718.8357	0.018
Geoid Height:	-63.7691	

CONTROL MARK DATA

NAME OF MARK: 18131600 COUNTY: DESCHUTES
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON
 DATE OF MARK: 1975 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4295

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

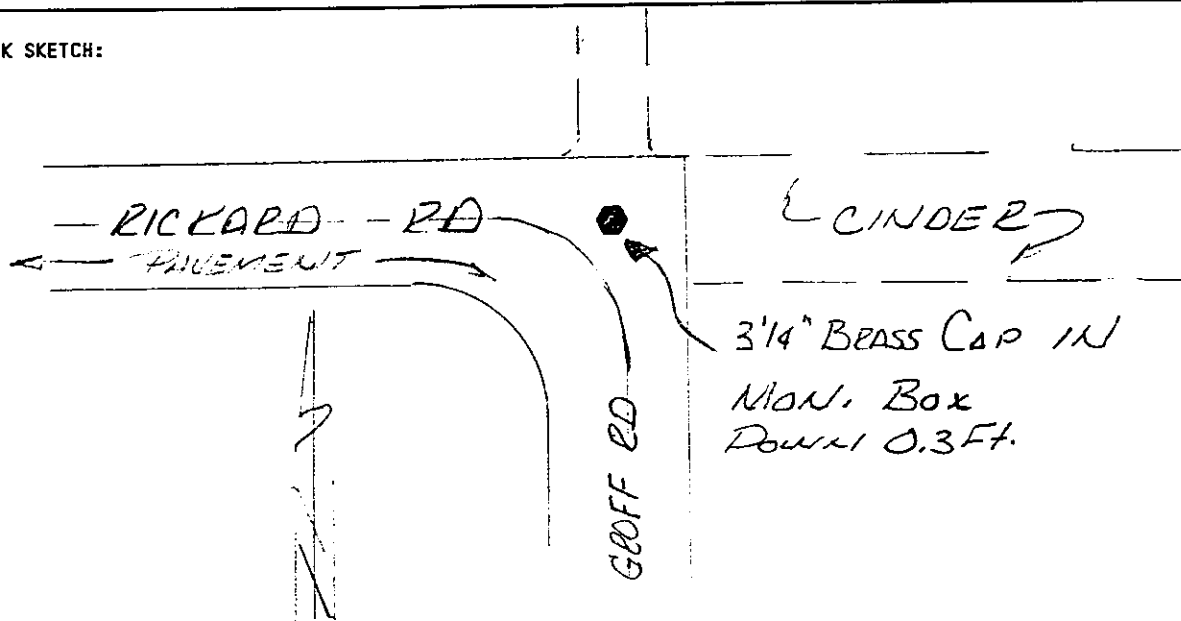
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'27.927363"	ONE SIGMA ERROR
Longitude:	121°11'01.157628"	
Northing:	367412.0626	0.006
Easting:	3326230.5293	0.006
Convergence:	+0°04'09.3079"	
Scale Factor:	1.000160785711	
Ellipsoid Height:	3657.4953	0.013
Orthometric Height:	3721.2913	0.017
Geoid Height:	-63.796	

CONTROL MARK DATA

NAME OF MARK: 18131604 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1089

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

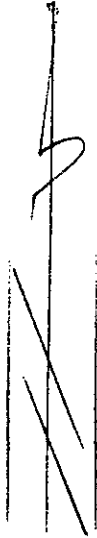
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131604</u>	HORIZONTAL ORDER: <u>FIRST</u>
Latitude:	44°00'27.877038" ONE SIGMA ERROR
Longitude:	121°10'25.105875" 0.015
Northing:	367410.311 0.015
Easting:	3328865.8341 0.022
Convergence:	+0°04'34.3551" 0.024
Scale Factor:	1.000160951518 -63.78
Ellipsoid Height:	3635.958
Orthometric Height:	3699.7379
Geoid Height:	-63.78

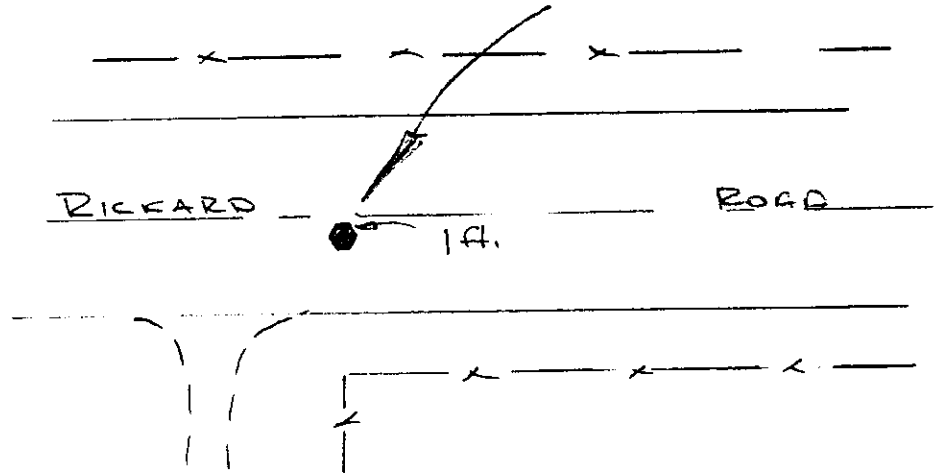
CONTROL MARK DATA

NAME OF MARK: 18131700 COUNTY: DESCHUTES
 MARK SET BY: LS 0654 NORMAN NEWTON STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0955

MARK SKETCH:



2" BRASS CAP
IN CONC. ROAD LEVEL



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

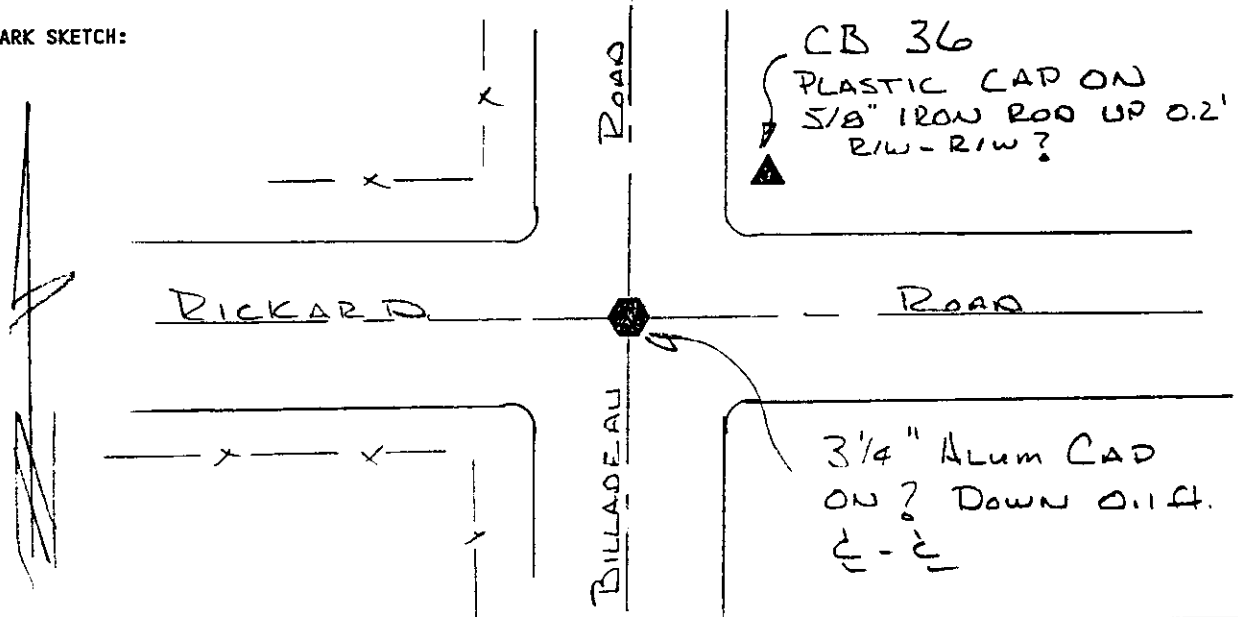
MARK: 18131700 HORIZONTAL ORDER: FIRST

Latitude:	44°00'27.668752"	ONE
Longitude:	121°12'13.166985"	SIGMA
Northing:	367380.1472	ERROR
Easting:	3320966.8407	0.010
Convergence:	+0°03'19.2787"	0.010
Scale Factor:	1.000160502013	
Ellipsoid Height:	3687.631	0.015
Orthometric Height:	3751.4488	0.018
Geoid Height:	-63.8179	

CONTROL MARK DATA

NAME OF MARK: 18131800 COUNTY: DESCHUTES
 MARK SET BY: LS 1642 ROBERT KARL STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0726

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

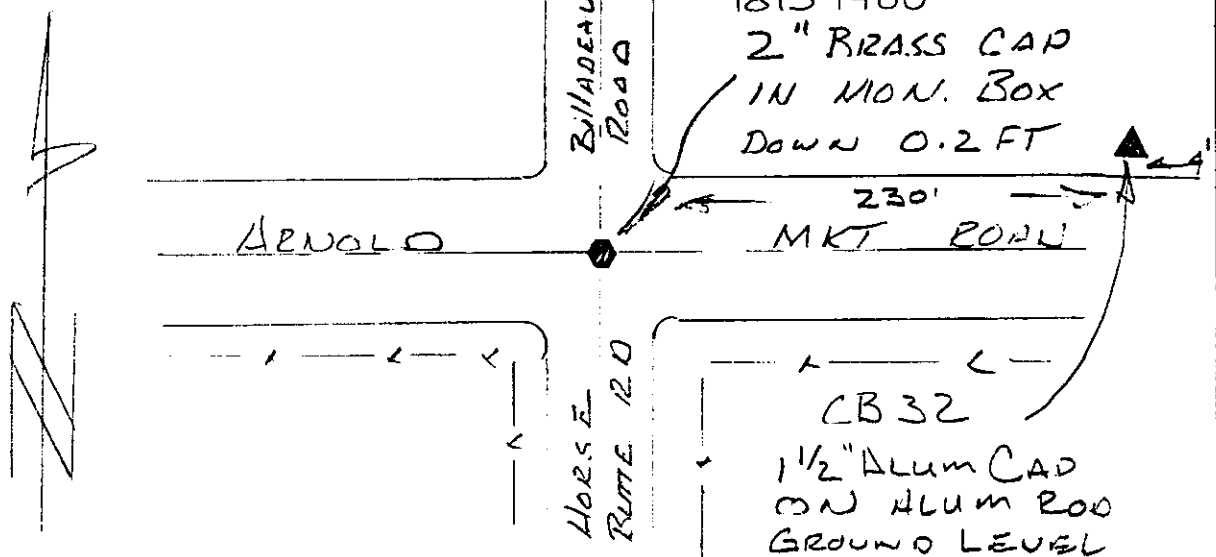
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18131800</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'27.542733"	ONE SIGMA ERROR
Longitude:	121°13'26.549543"	
Northing:	367362.8648	0.013
Easting:	3315602.7518	0.013
Convergence:	+0°02'28.2957"	
Scale Factor:	1.000160278004	
Ellipsoid Height:	3713.9483	0.020
Orthometric Height:	3777.7895	0.022
Geoid Height:	-63.8412	

CONTROL MARK DATA

NAME OF MARK: 18131900 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: 18131900

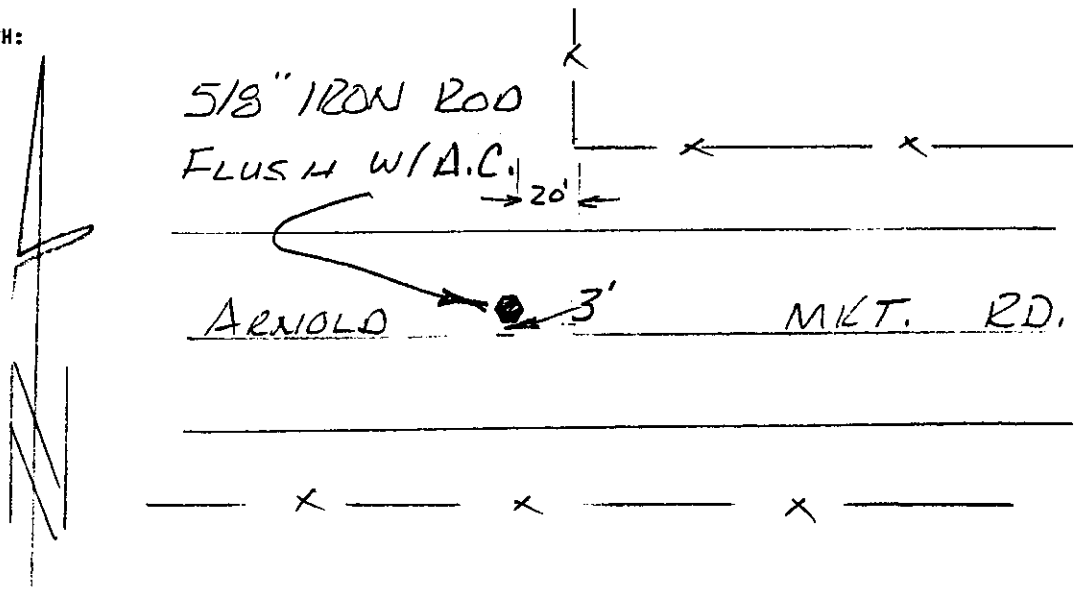
HORIZONTAL ORDER: SECOND

Latitude:	43°59'35.448007"	ONE
Longitude:	121°13'27.156524"	SIGMA
		ERROR
Northing:	362086.7973	0.010
Easting:	3315562.1648	0.016
Convergence:	+0°02'27.8353"	
Scale Factor:	1.000160276561	
Ellipsoid Height:	3756.821	0.025
Orthometric Height:	3820.5291	0.027
Geoid Height:	-63.7081	

CONTROL MARK DATA

NAME OF MARK: 18132000 COUNTY: DESCHUTES
MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
DATE OF MARK: N/A COUNTRY: U.S.A.
LOCATION: SECTION 20 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

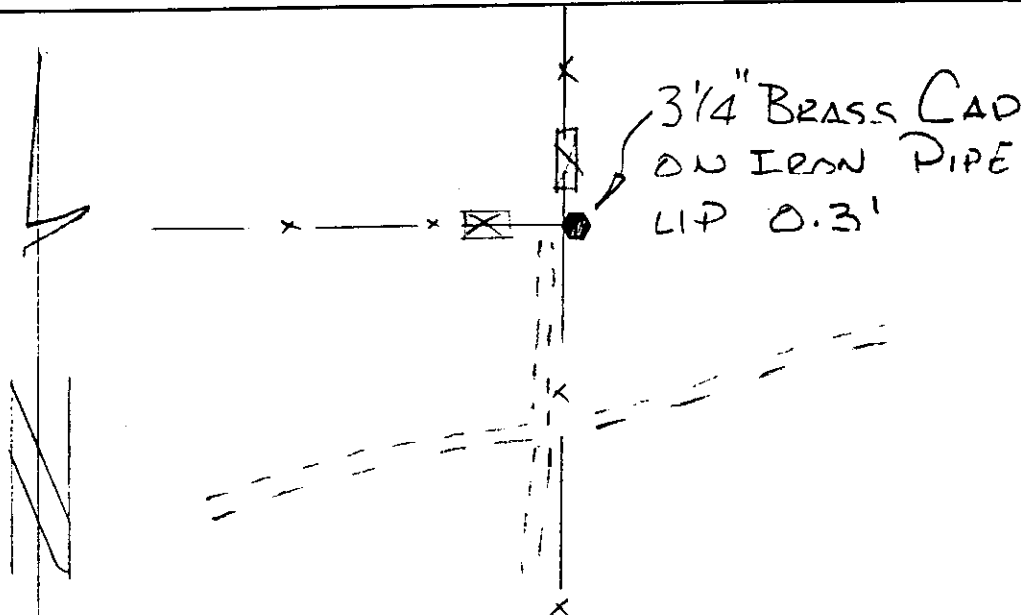
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18132000</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	<u>43°59'35.543557"</u>	<u>ONE</u>
Longitude:	<u>121°12'14.288056"</u>	<u>SIGMA</u>
Northing:	<u>362100.9466</u>	<u>ERROR</u>
Easting:	<u>3320889.9727</u>	<u>0.009</u>
Convergence:	<u>+0°03'18.4479"</u>	<u>0.009</u>
Scale Factor:	<u>1.000160498340</u>	
Ellipsoid Height:	<u>3742.8577</u>	<u>0.014</u>
Orthometric Height:	<u>3806.5483</u>	<u>0.017</u>
Geoid Height:	<u>-63.6906</u>	

CONTROL MARK DATA

NAME OF MARK: 18132100 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1216

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

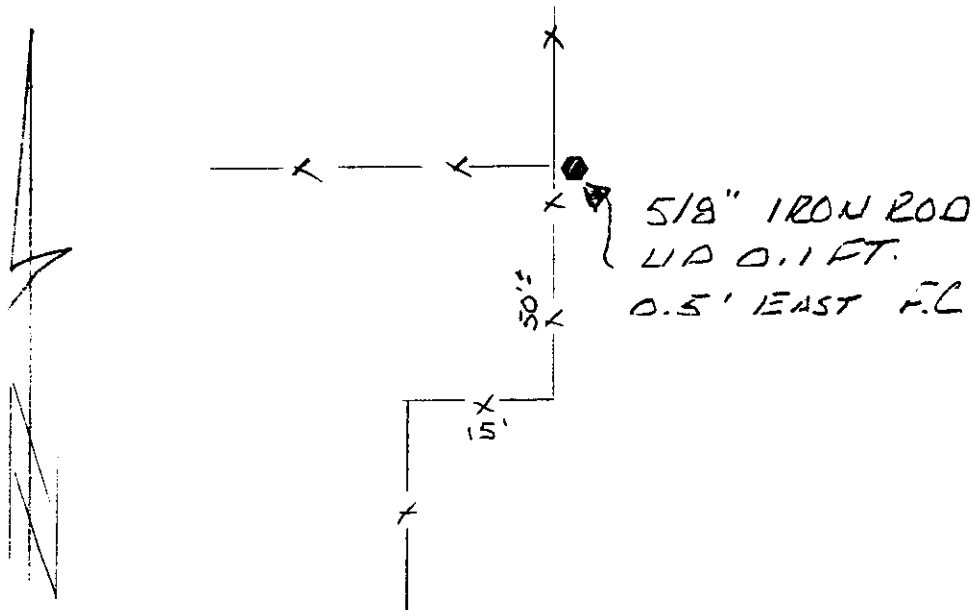
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18132100</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'35.451225"	ONE SIGMA ERROR
Longitude:	121°11'01.720572"	
Northing:	362097.3484	0.010
Easting:	3326195.7922	0.010
Convergence:	+0°04'08.8513"	
Scale Factor:	1.000160783634	
Ellipsoid Height:	3774.4274	0.016
Orthometric Height:	3838.1011	0.019
Geoid Height:	-63.6737	

CONTROL MARK DATA

NAME OF MARK: 18132140 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 1977 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4347

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

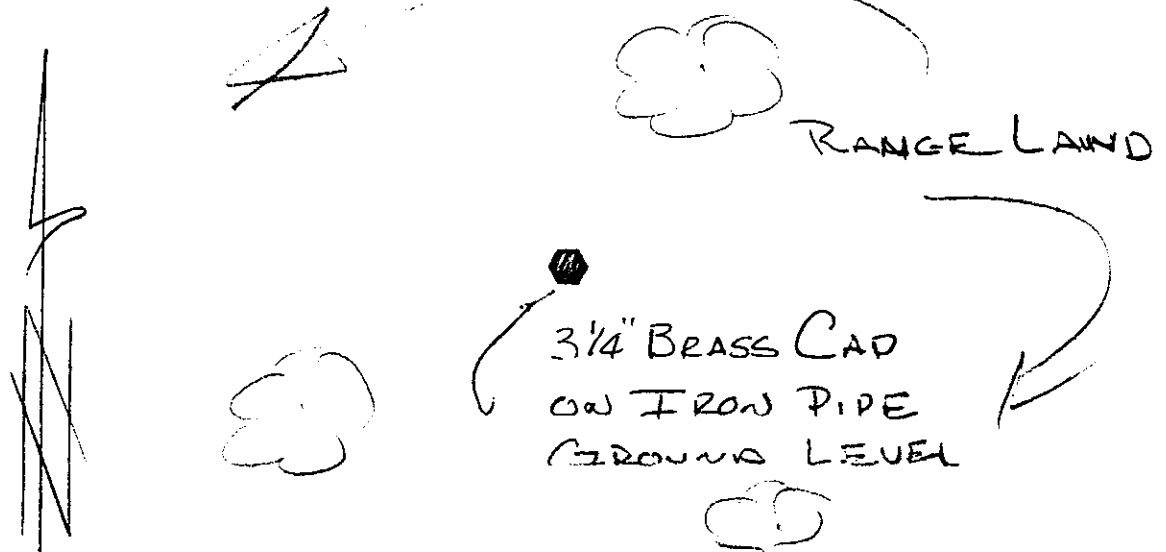
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18132140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'01.690438"	ONE SIGMA ERROR
Longitude:	121°11'01.441811"	
Northing:	364754.8195	0.015
Easting:	3326212.9652	0.015
Convergence:	+0°04'09.0777"	
Scale Factor:	1.000160784661	
Ellipsoid Height:	3685.0918	0.022
Orthometric Height:	3748.8278	0.025
Geoid Height:	-63.736	

CONTROL MARK DATA

NAME OF MARK: 18132200 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
DATE OF MARK: 1993 COUNTRY: U.S.A.
LOCATION: SECTION 22 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: OCRR N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDITIC AND MAPPING COORDINATES

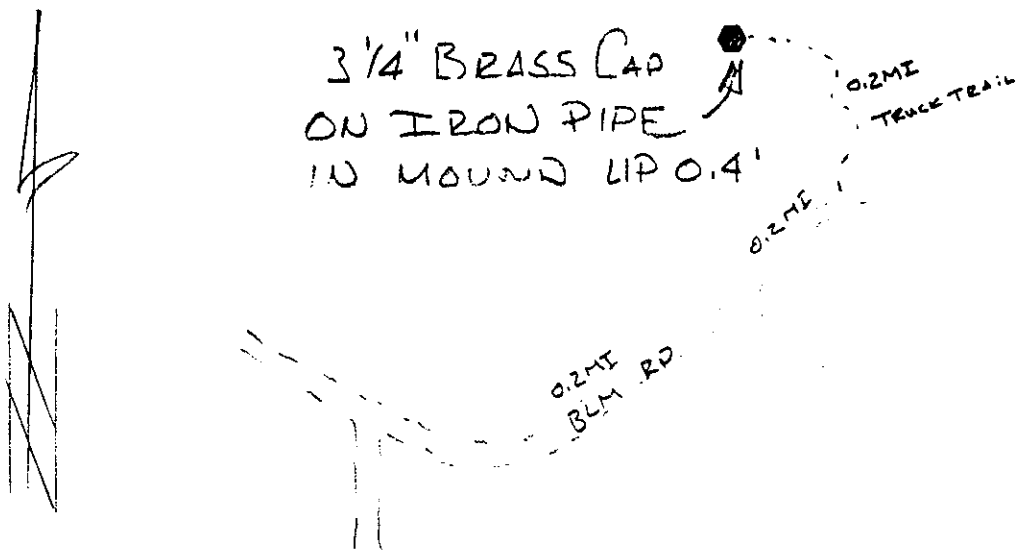
MARK: 18132200 HORIZONTAL ORDER: FIRST

Latitude:	43°59'35.628035"	ONE SIGMA ERROR
Longitude:	121°09'49.340594"	
Northing:	362122.2849	0.014
Easting:	3331487.8673	0.014
Convergence:	+0°04'59.1248"	
Scale Factor:	1.000161132236	
Ellipsoid Height:	3742.4233	0.021
Orthometric Height:	3806.0782	0.024
Geoid Height:	-63.6549	

CONTROL MARK DATA

NAME OF MARK: 18132300 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: ~~DCMC~~ N/A OCRR 1242

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

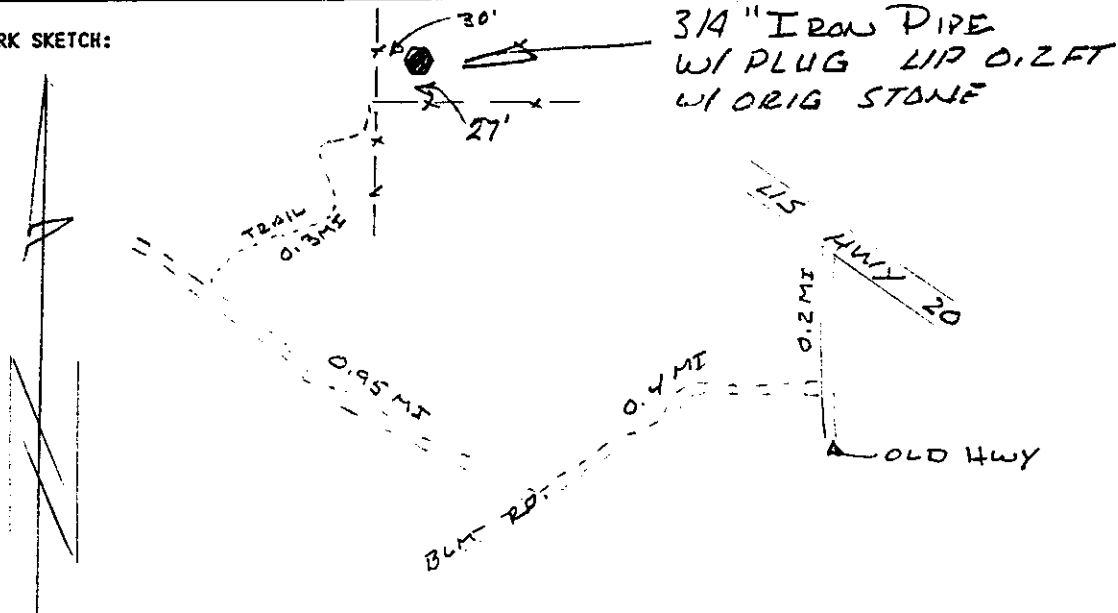
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18132300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'35.593674"	ONE SIGMA ERROR
Longitude:	121°08'36.821547"	
Northing:	362127.1417	0.014
Easting:	3336790.1383	0.014
Convergence:	+0°05'49.4947"	
Scale Factor:	1.000161545658	
Ellipsoid Height:	3692.7194	0.020
Orthometric Height:	3756.3619	0.022
Geoid Height:	-63.6425	

CONTROL MARK DATA

NAME OF MARK: 18132400 COUNTY: DESCHUTES
 MARK SET BY: LS 777 DENNIS BENNETT STATE: OREGON
 DATE OF MARK: 1970 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4352

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

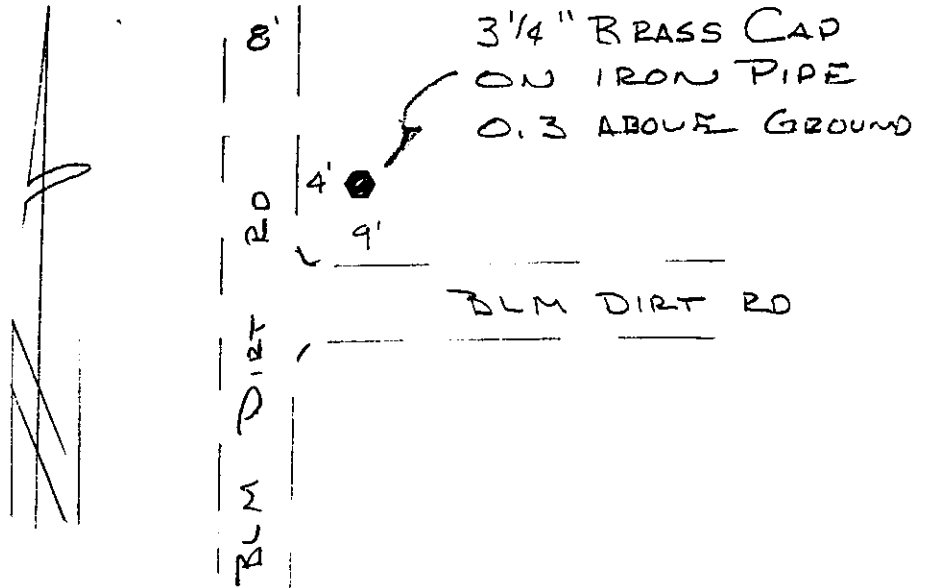
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18132400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'35.565374"	ONE SIGMA ERROR
Longitude:	121°07'24.526325"	
Northing:	362133.8754	0.012
Easting:	3342076.0447	0.012
Convergence:	+0°06'39.7091"	
Scale Factor:	1.000162021718	
Ellipsoid Height:	3587.8619	0.017
Orthometric Height:	3651.509	0.019
Geoid Height:	-63.6471	

CONTROL MARK DATA

NAME OF MARK: 18132700 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: ~~DCMC~~ ~~N/A~~ OCRE 1241

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

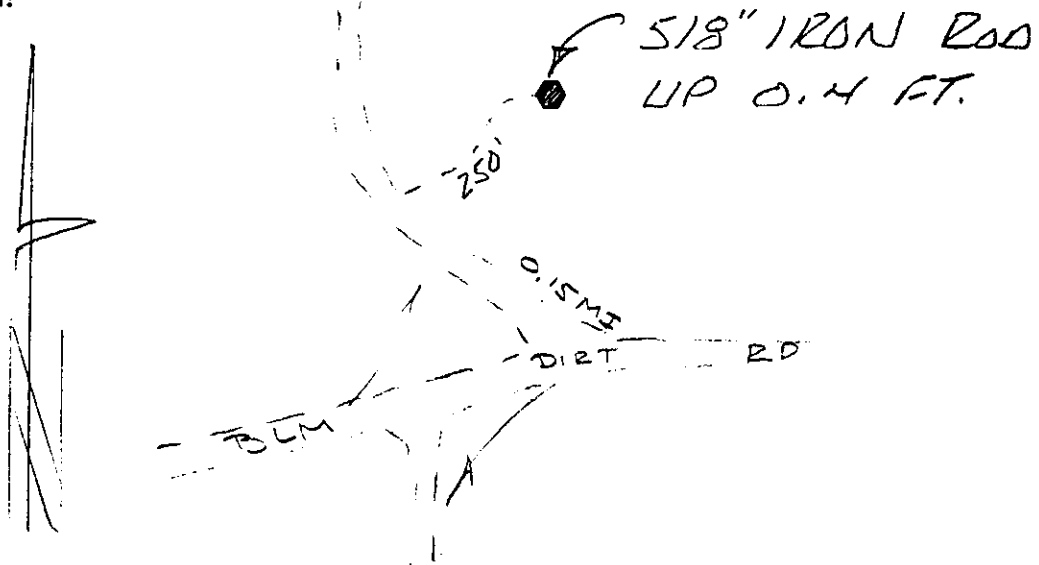
MARK: 18132700 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	43°58'43.354061"	
Longitude:	121°09'49.630472"	
Northing:	356828.0779	0.019
Easting:	3331474.3443	0.019
Convergence:	+0°04'58.8450"	
Scale Factor:	1.000161131268	
Ellipsoid Height:	3854.0979	0.029
Orthometric Height:	3917.6307	0.031
Geoid Height:	-63.5329	

CONTROL MARK DATA

NAME OF MARK: 18132740 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 1977 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4347

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

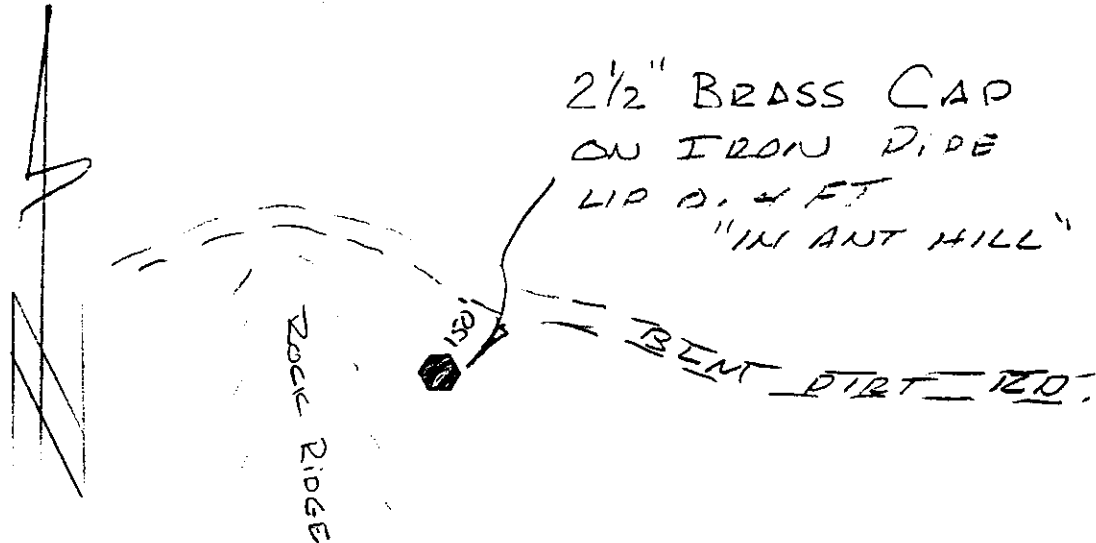
MARK: 18132740 HORIZONTAL ORDER: FIRST

Latitude:	43°59'09.575302"	ONE SIGMA
Longitude:	121°09'49.462072"	ERROR
Northing:	359483.7152	0.019
Easting:	3331482.8106	0.019
Convergence:	+0°04'59.0013"	
Scale Factor:	1.000161131874	
Ellipsoid Height:	3768.4702	0.027
Orthometric Height:	3832.0652	0.029
Geoid Height:	-63.595	

CONTROL MARK DATA

NAME OF MARK: 18132800 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

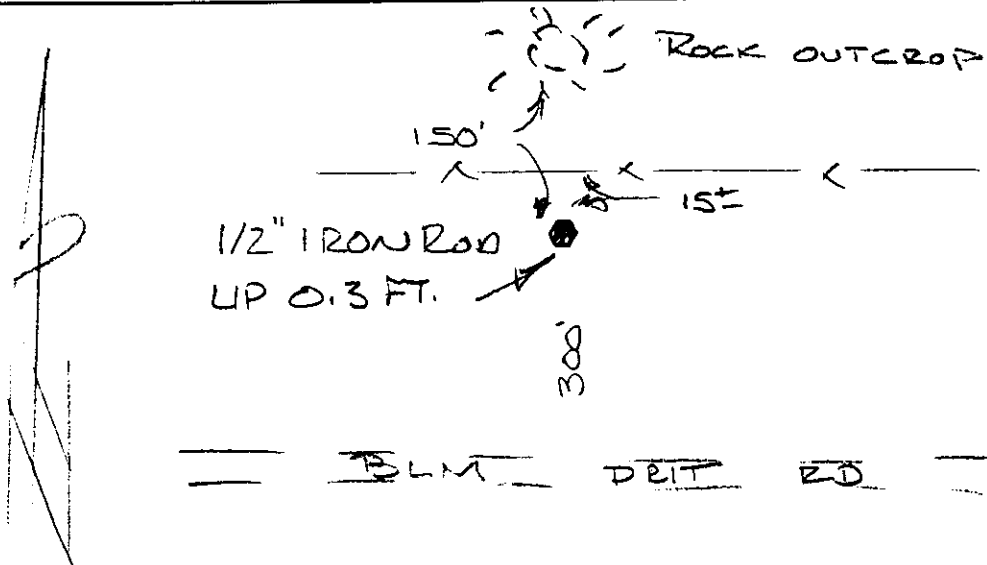
MARK: 18132800 HORIZONTAL ORDER: FIRST

Latitude:	43°58'43.019514"	ONE SIGMA ERROR
Longitude:	121°11'02.292132"	
Northing:	356787.1466	0.011
Easting:	3326160.3978	0.011
Convergence:	+0°04'08.3888"	
Scale Factor:	1.000160781521	
Ellipsoid Height:	3910.4248	0.017
Orthometric Height:	3973.9679	0.020
Geoid Height:	-63.5432	

CONTROL MARK DATA

NAME OF MARK: 18132804 COUNTY: DESCHUTES
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON
 DATE OF MARK: 1977 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4347

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

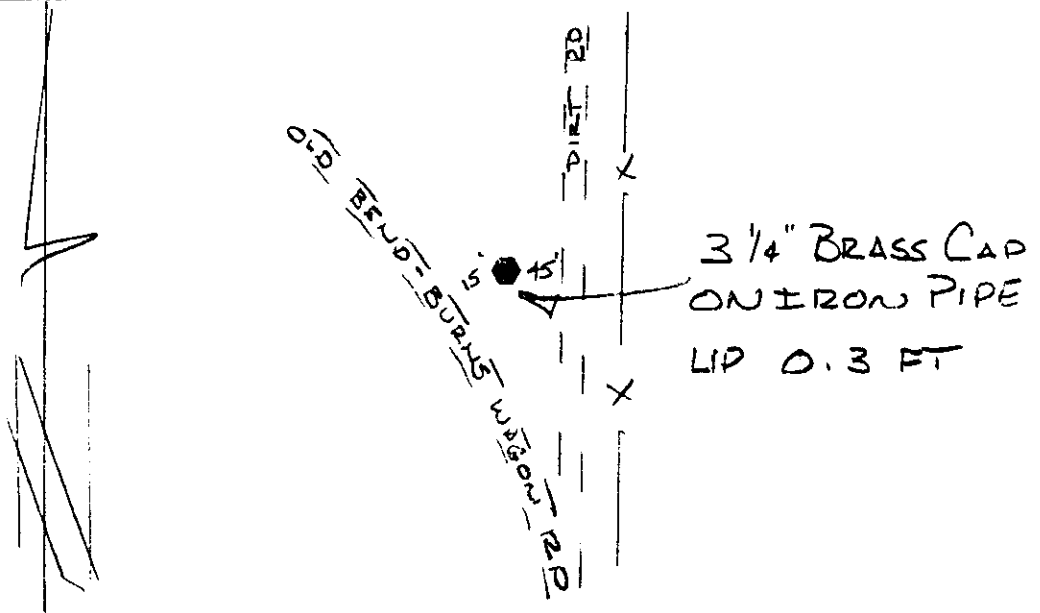
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18132804</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°58'43.188332"	ONE SIGMA ERROR
Longitude:	121°10'25.962006"	
Northing:	356807.6061	0.017
Easting:	3328817.3214	0.017
Convergence:	+0°04'33.6164"	
Scale Factor:	1.000160948329	
Ellipsoid Height:	3880.9446	0.026
Orthometric Height:	3944.4817	0.029
Geoid Height:	-63.5371	

CONTROL MARK DATA

NAME OF MARK: 18132840 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1214

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

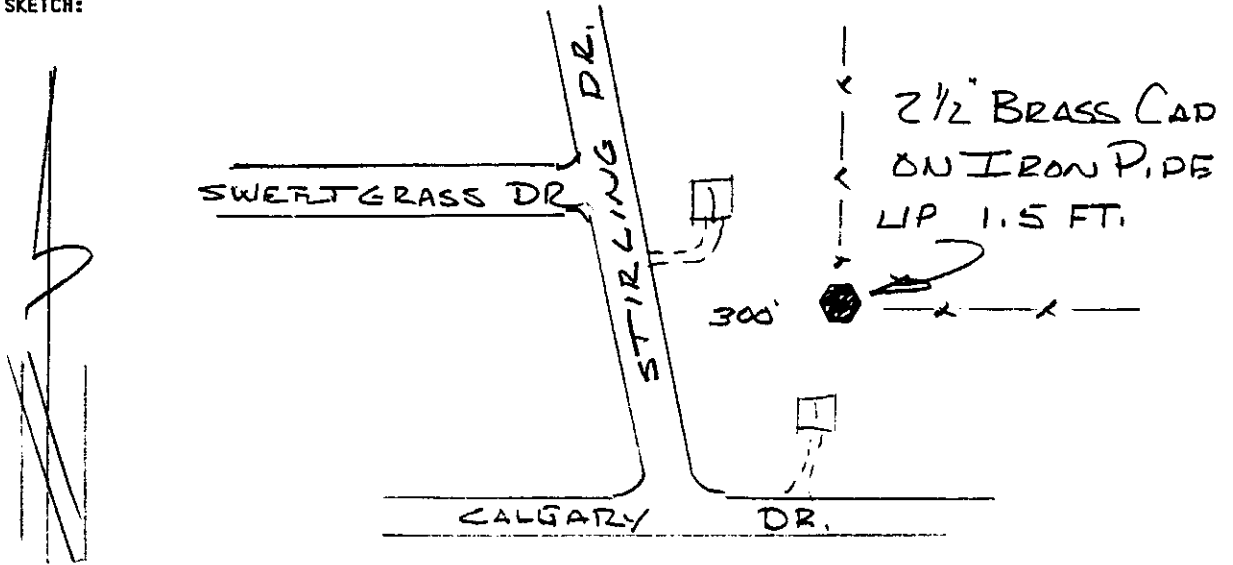
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18132840</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	43°59'09.570904"	ONE SIGMA ERROR
Longitude:	121°11'01.839045"	
Northing:	359476.2427	0.015
Easting:	3326190.291	0.015
Convergence:	+0°04'08.7366"	
Scale Factor:	1.000160783307	
Ellipsoid Height:	3851.2304	0.021
Orthometric Height:	3914.8406	0.024
Geoid Height:	-63.6102	

CONTROL MARK DATA

NAME OF MARK: 18132900 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1973 COUNTRY: U.S.A.
 LOCATION: SECTION 29 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

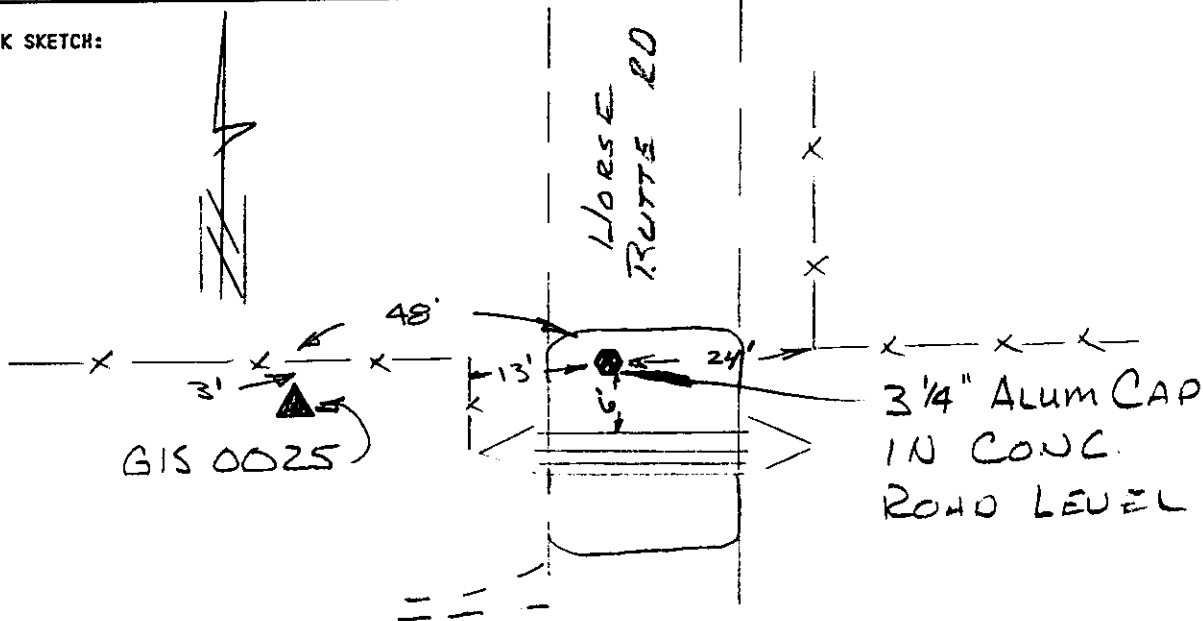
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18132900</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	43°58'43.367987"	ONE SIGMA ERROR
Longitude:	121°12'14.825330"	
Northing:	356816.6987	0.010
Easting:	3320855.7633	0.010
Convergence:	+0°03'18.0228"	
Scale Factor:	1.000160496711	
Ellipsoid Height:	3835.7362	0.014
Orthometric Height:	3899.2913	0.017
Geoid Height:	-63.555	

CONTROL MARK DATA

NAME OF MARK: 18133000 COUNTY: DESCHUTES
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 0958

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18133000</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	43°58'43.259023"	ONE SIGMA ERROR
Longitude:	121°13'27.683378"	
Northing:	356801.2012	0.001
Easting:	3315527.422	0.013
Convergence:	+0°02'27.4307"	
Scale Factor:	1.000160275328	
Ellipsoid Height:	3885.813	0.014
Orthometric Height:	3949.3792	0.014
Geoid Height:	-63.5662	

CONTROL MARK DATA

NAME OF MARK: 18133100 COUNTY: DESCHUTES
 MARK SET BY: LS 2111 WALTER MILLER STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 4362

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

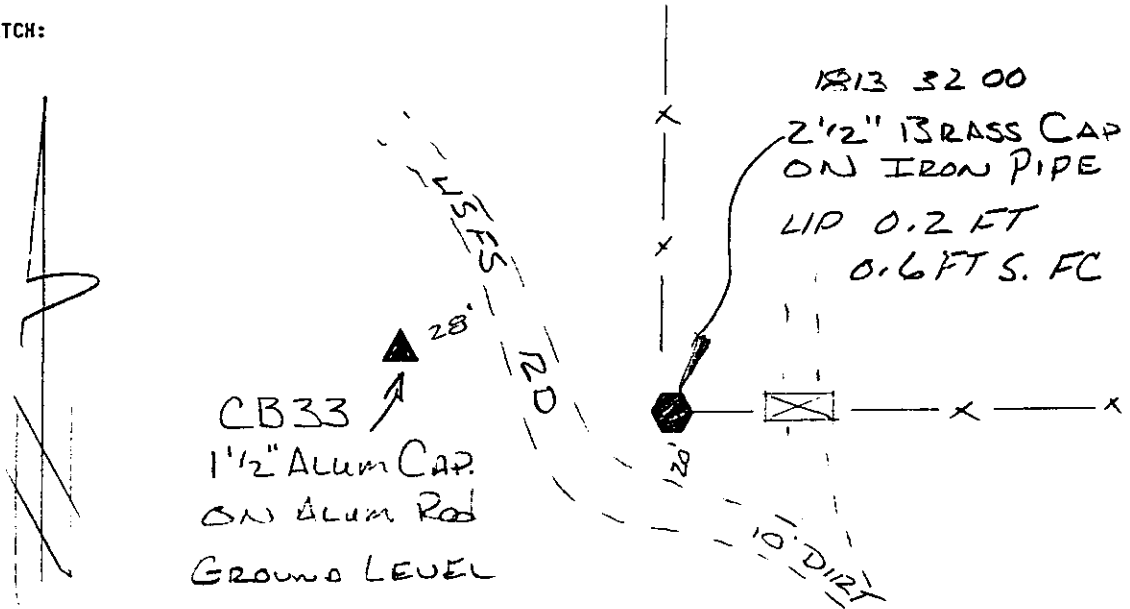
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18133100</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	43°57'51.043806"	ONE SIGMA ERROR
Longitude:	121°13'27.242520"	
Northing:	351513.0124	0.011
Easting:	3315563.4506	0.011
Convergence:	+0°02'27.6981"	
Scale Factor:	1.000160276608	
Ellipsoid Height:	3991.4368	0.016
Orthometric Height:	4054.8647	0.018
Geoid Height:	-63.4279	

CONTROL MARK DATA

NAME OF MARK: 18133200 COUNTY: DESCHUTES
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON
 DATE OF MARK: 1973 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS N/A

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

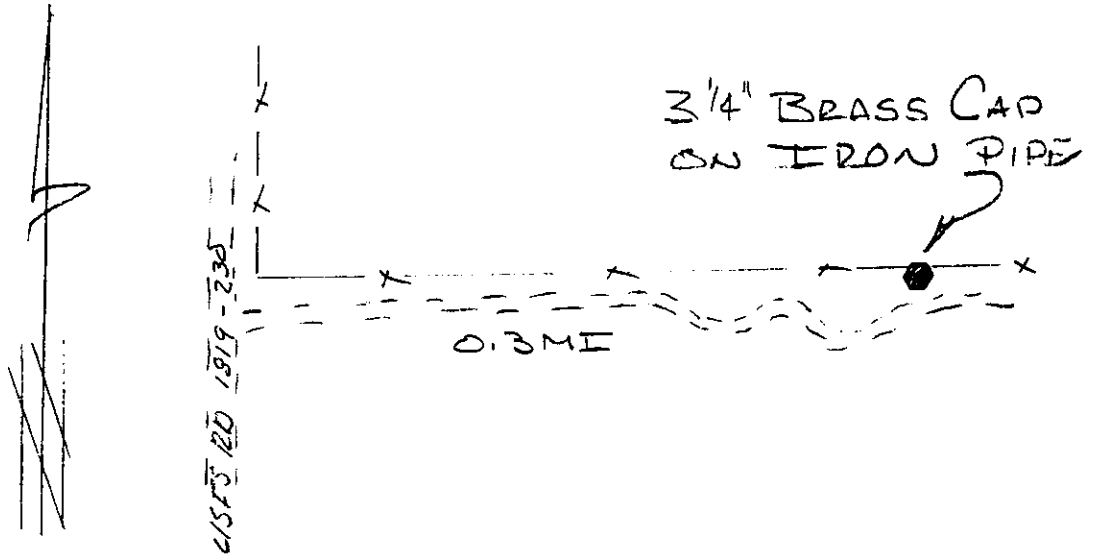
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18133200</u>	<u>HORIZONTAL ORDER:</u> <u>SECOND</u>	
Latitude:	43°57'51.086630"	ONE SIGMA ERROR
Longitude:	121°12'14.771178"	
Northing:	351521.7921	0.011
Easting:	3320864.8073	0.016
Convergence:	+0°03'18.0084"	
Scale Factor:	1.000160497144	
Ellipsoid Height:	4055.5102	0.023
Orthometric Height:	4118.9251	0.026
Geoid Height:	-63.4149	

CONTROL MARK DATA

NAME OF MARK: 18133300 COUNTY: DESCHUTES
 MARK SET BY: LS 2282 KENNETH L. GRANTHAM STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR ~~NA~~ 1244

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

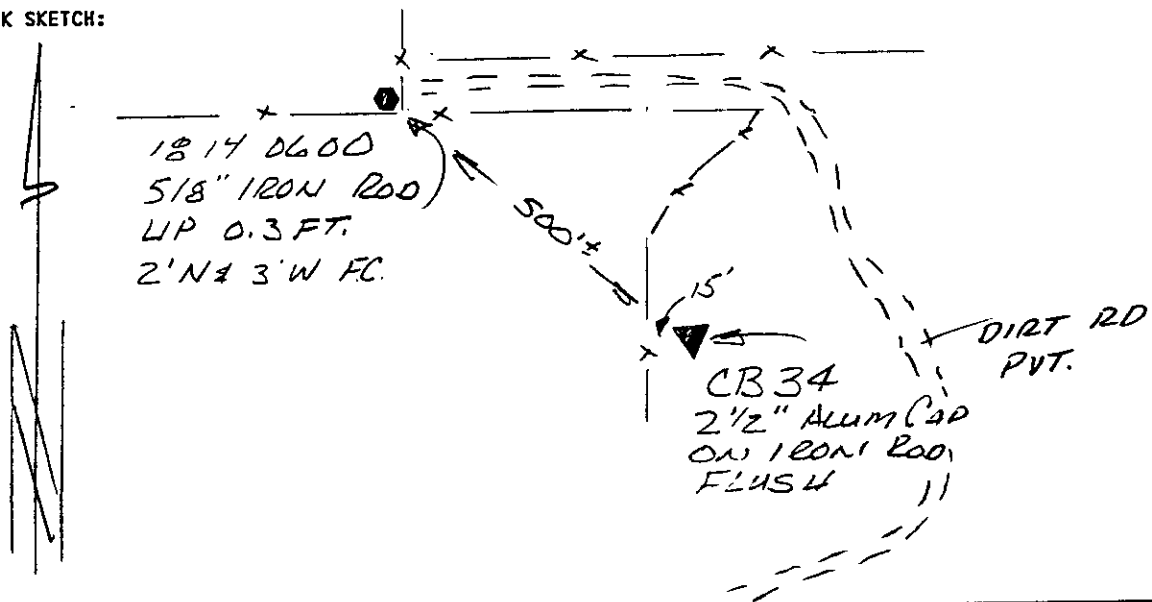
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>18133300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°57'51.244580"	ONE SIGMA ERROR
Longitude:	121°11'02.461250"	
Northing:	351543.5103	0.012
Easting:	3326154.3403	0.012
Convergence:	+0°04'08.2068"	
Scale Factor:	1.000160781162	
Ellipsoid Height:	4013.6461	0.018
Orthometric Height:	4077.051	0.021
Geoid Height:	-63.4049	

CONTROL MARK DATA

NAME OF MARK: 18140600 COUNTY: DESCHUTES
 MARK SET BY: N/A STATE: OREGON
 DATE OF MARK: N/A COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 18 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1232

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

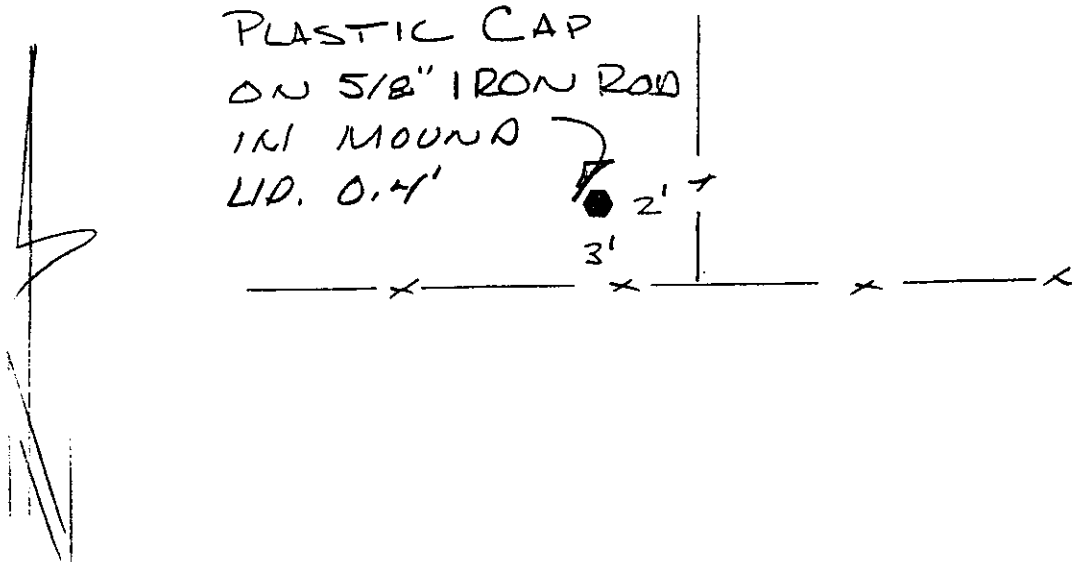
GEODITIC AND MAPPING COORDINATES

<u>MARK: 18140600</u>	<u>HORIZONTAL ORDER: SECOND</u>	
Latitude:	44°02'12.055120"	ONE SIGMA ERROR
Longitude:	121°06'11.470496"	
Northing:	377993.8531	0.016
Easting:	3347382.9332	0.016
Convergence:	+0°07'30.8058"	
Scale Factor:	1.000162563837	
Ellipsoid Height:	3387.9485	0.045
Orthometric Height:	3451.824	0.046
Geoid Height:	-63.8755	

CONTROL MARK DATA

NAME OF MARK: 18140700 COUNTY: DESCHUTES
MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON
DATE OF MARK: 1989 COUNTRY: U.S.A.
LOCATION: SECTION 7 TOWNSHIP 18 S. RANGE 14 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 4365

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDITIC AND MAPPING COORDINATES

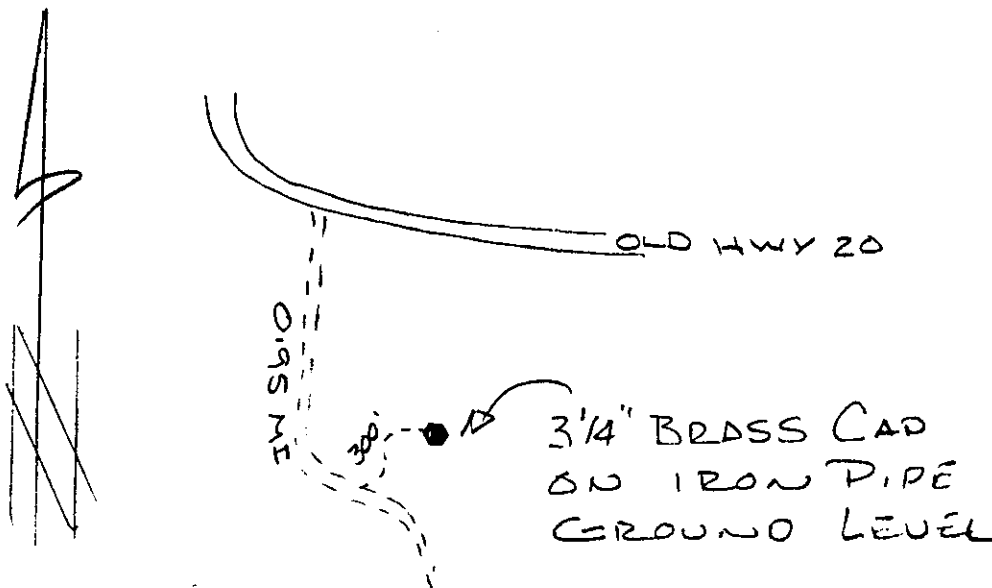
MARK: 18140700 HORIZONTAL ORDER: FIRST

Latitude:	44°01'19.915519"	ONE SIGMA ERROR
Longitude:	121°06'11.802444"	
Northing:	372713.1918	0.009
Easting:	3347370.2141	0.009
Convergence:	+0°07'30.4573"	
Scale Factor:	1.000162562469	
Ellipsoid Height:	3433.5844	0.013
Orthometric Height:	3497.4034	0.016
Geoid Height:	-63.819	

CONTROL MARK DATA

NAME OF MARK: 18143100 COUNTY: DESCHUTES
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 18 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: OCRR 1212

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

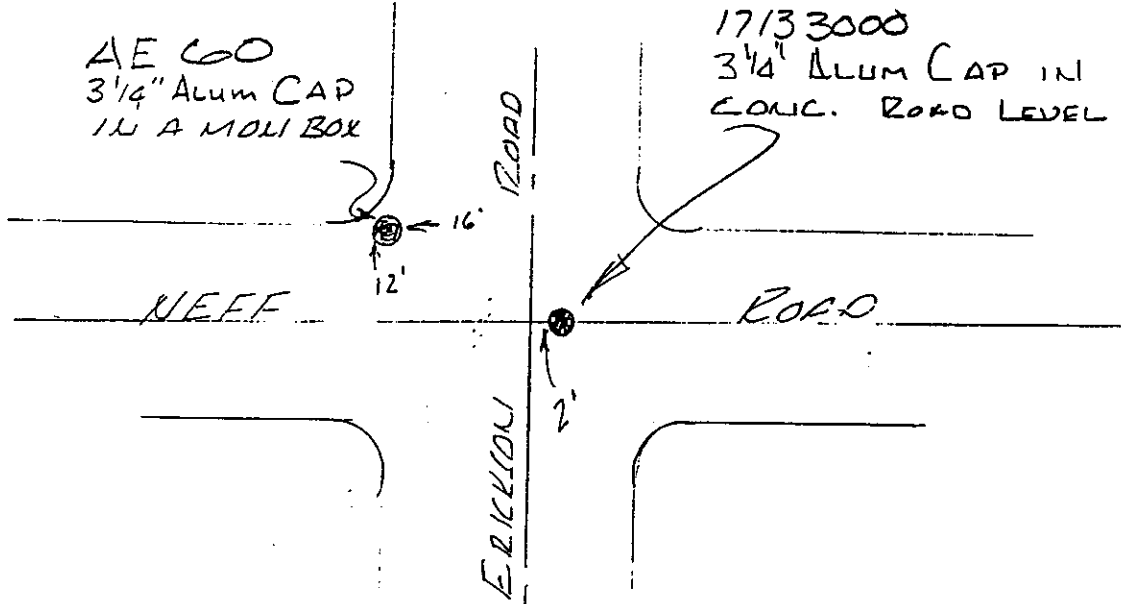
GEODITIC AND MAPPING COORDINATES

MARK: <u>18143100</u>	HORIZONTAL ORDER:	FIRST
Latitude:	43°57'51.361187"	ONE SIGMA ERROR
Longitude:	121°06'13.274864"	
Northing:	351591.0704	0.008
Easting:	3347308.6086	0.008
Convergence:	+0°07'28.9636"	
Scale Factor:	1.000162555843	
Ellipsoid Height:	3775.9461	0.012
Orthometric Height:	3839.3268	0.017
Geoid Height:	-63.3807	

CONTROL MARK DATA

NAME OF MARK: AE60 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

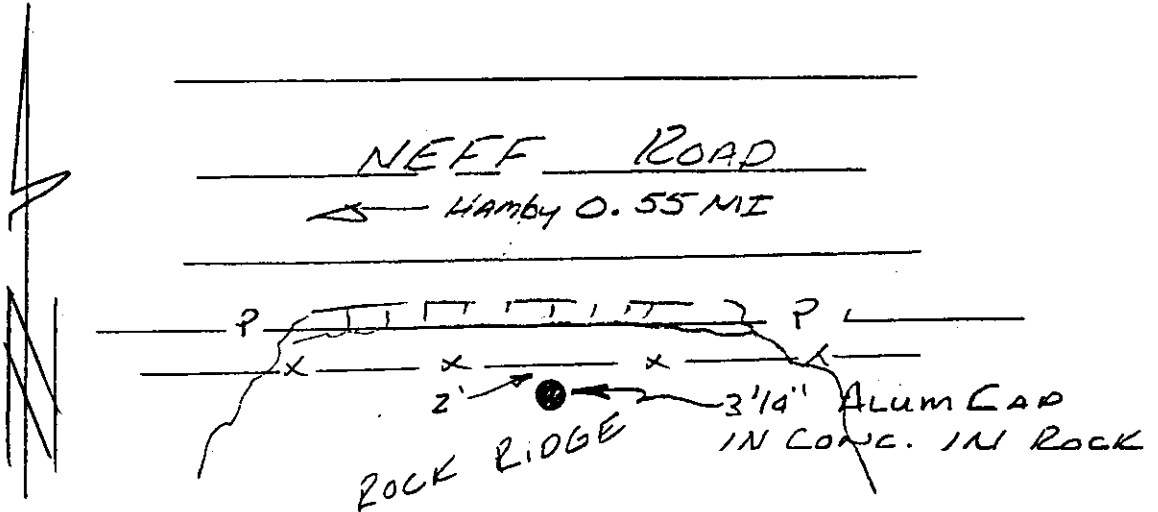
GEODITIC AND MAPPING COORDINATES

MARK: <u>AE60</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.577271"	ONE
Longitude:	121°13'24.586149"	SIGMA
Northing:	388533.6474	ERROR
Easting:	3315730.9026	0.011
Convergence:	+0°02'29.8167"	0.010
Scale Factor:	1.000160282586	
Ellipsoid Height:	3497.4123	0.020
Orthometric Height:	3561.6952	0.032
Geoid Height:	-64.2829	

CONTROL MARK DATA

NAME OF MARK: AE70 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

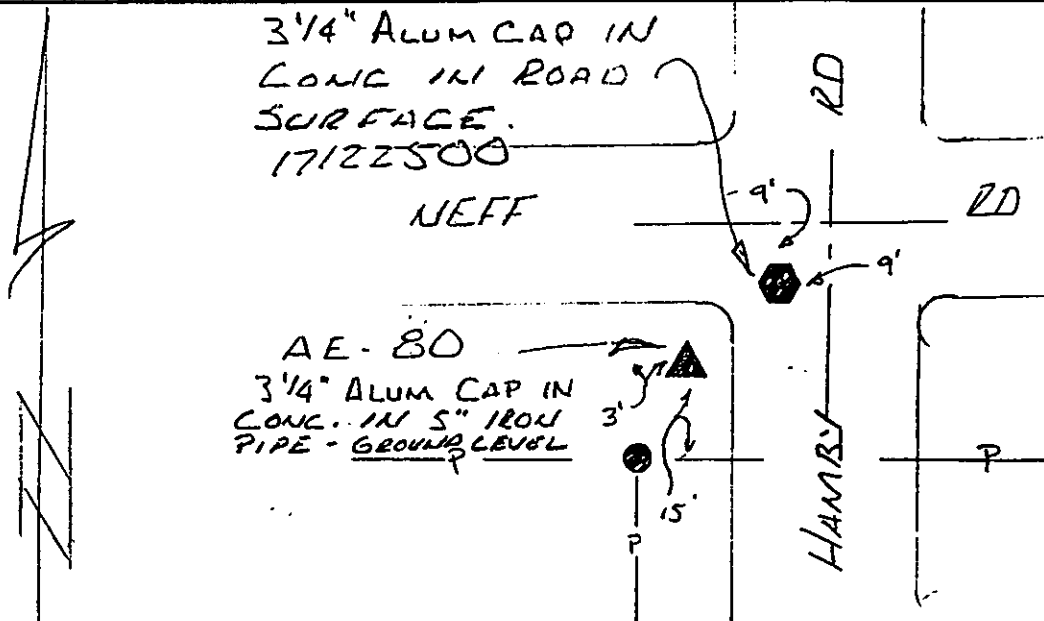
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>AE70</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.256241"	ONE SIGMA ERROR
Longitude:	121°13'55.646152"	
Northing:	388499.6052	0.008
Easting:	3313462.7219	0.007
Convergence:	+0°02'08.2148"	
Scale Factor:	1.000160206971	
Ellipsoid Height:	3519.5432	0.014
Orthometric Height:	3583.8411	0.028
Geoid Height:	-64.2979	

CONTROL MARK DATA

NAME OF MARK: AE80 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

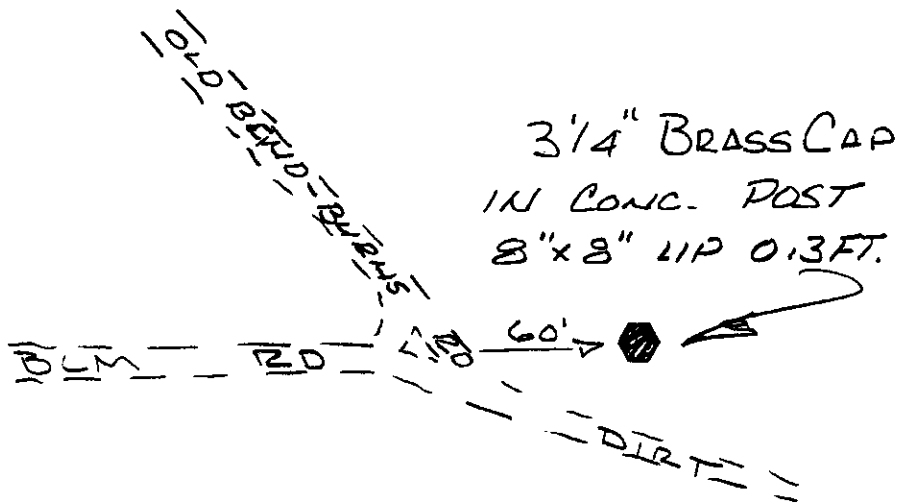
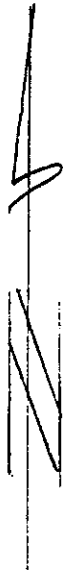
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>AE80</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°03'56.643155"	ONE SIGMA ERROR
Longitude:	121°14'37.452937"	
Northing:	388537.1088	0.012
Easting:	3310409.6986	0.010
Convergence:	+0°01'39.1391"	
Scale Factor:	1.000160123743	
Ellipsoid Height:	3520.8345	0.020
Orthometric Height:	3585.1578	0.032
Geoid Height:	-64.3233	

CONTROL MARK DATA

NAME OF MARK: B-23 USGS COUNTY: DESCHUTES
 MARK SET BY: GEOLOGICAL SURVEY STATE: OREGON
 DATE OF MARK: 1920 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK: B-23 USGS</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°58'43.069637"	ONE SIGMA ERROR
Longitude:	121°10'43.104328"	
Northing:	356793.9581	0.008
Easting:	3327563.661	0.008
Convergence:	+0°04'21.7127"	
Scale Factor:	1.000160867612	
Ellipsoid Height:	3893.0849	0.019
Orthometric Height:	3956.6254	0.022
Geoid Height:	-63.5405	

CONTROL MARK DATA

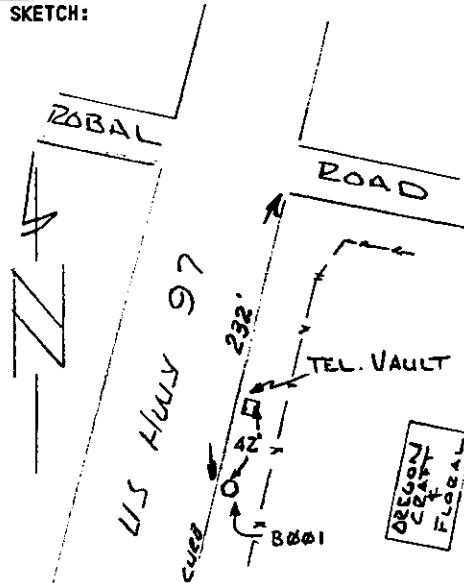
NAME OF MARK: B001 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK DESCRIPTION:
 TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED NORTH ON HWY. 97 FOR 2.95 MILES TO THE MARK ON THE RIGHT.

THE MARK IS A STANDARD OREGON STATE HWY. REFERENCE BRASS CAP IN A 6 IN. STEEL PIPE 1.0 FT. BELOW GROUND LEVEL.

3 FEET EAST OF EAST CURB.
 43 FEET SOUTH OF A TELEPHONE VAULT.
 232 FEET SOUTH OF ROBAL ROAD.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
B001	Latitude	N 44°06'07.770647"
	Longitude	W 121°17'57.788789"
	Scale Factor	1.000160020312
	Convergence	-0°00'40.2175"
	Northing (y)	401815.5080 0.010729F
	Easting (x)	3295782.4815 0.009904F
	Ellipsoid Height	3440.0961 0.012874F
	Orthometric Height	3504.8094 0.017670F
	Geoid Height	-64.7133 0.012104F

CONTROL MARK DATA

NAME OF MARK: BOO2 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

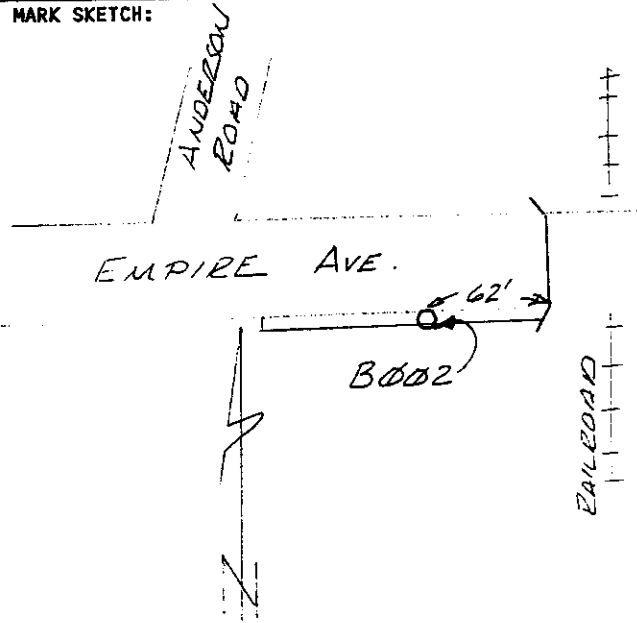
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED NORTH ON HWY. 97 FOR 2.15 MILES TO EMPIRE AVE., TURN RIGHT & PROCEED 0.18 MI. TO THE MARK ON THE RIGHT.

THE MARK IS A OREGON STATE HIGHWAY DIVISION TRIANGULATION BRASS CAP GROUTED IN THE SOUTH SIDEWALK OF EMPIRE AVE. AND MARKED "WB 7 1988".

1 FOOT SOUTH OF SOUTH CURB.
62 FT. WEST OF WESTERLY BRIDGE ABUTMENT.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= <u>NAD (83-91)</u>	CENTRAL MERIDIAN: <u>W 121°17'00.000000"</u>
VERTICAL= <u>NGVD 29</u>	LATITUDE OF ORIGIN: <u>N 43°00'00.000000"</u>
COORDINATE SYSTEM: <u>TRANSVERSE MERCATOR</u>	ORIGIN NORTHING: <u>0.0000 F</u>
ZONE: <u>DESCHUTES COUNTY</u>	ORIGIN EASTING: <u>3,300,000.0000 F</u>
LINEAR UNITS: <u>INTERNATIONAL FOOT</u>	SCALE ALONG MERIDIAN: <u>1.000160000000</u>

GEODETIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
BOO2	Latitude	N 44°05'26.835694"
	Longitude	W 121°18'01.289967"
	Scale Factor	1.000160022857
	Convergence	-0°00'42.6454"
	Northing(y)	397669.6902 0.011107F
	Easting (x)	3295526.1026 0.010561F
	Ellipsoid Height	3489.7181 0.012837F
	Orthometric Height	3554.3446 0.018463F
	Geoid Height	-64.6266 0.013270F

CONTROL MARK DATA

NAME OF MARK: B003 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

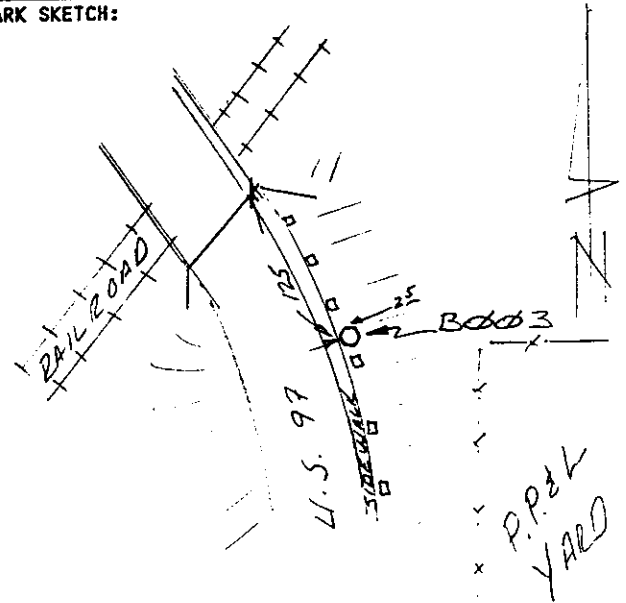
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED NORTH ON HWY. 97 FOR 0.9 MI. TO THE MARK ON THE RIGHT

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B003" 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

2.5 FT. EAST OF EAST SIDE OF SIDEWALK.
125.5 FT. SOUTHERLY FROM BRIDGE DECK.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B003	Latitude	N 44°04'25.430925"	
	Longitude	W 121°18'07.169984"	
	Scale Factor	1.000160027469	
	Convergence	-0°00'46.7223"	
	Northing(y)	391450.7581	0.010431F
	Easting (x)	3295095.4784	0.010339F
	Ellipsoid Height	3555.8490	0.011250F
	Orthometric Height	3620.3488	0.014877F
	Geoid Height	-64.4998	0.009736F

CONTROL MARK DATA

NAME OF MARK: B005 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

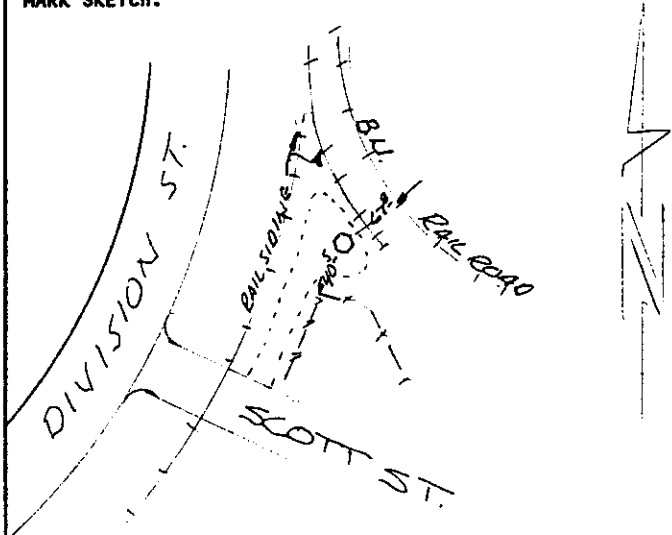
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 1.8 MI. TO WILSON AVE., TURN RIGHT & PROCEED WEST FOR 0.16 MI. TO DIVISION ST., TURN RIGHT & PROCEED NORTH FOR 0.68 MI TO SCOTT ST., TURN RIGHT & PROCEED EAST FOR 100 FT. TO CANAL ST., TURN LEFT & PROCEED NORTH FOR 300 FT. TO THE MARK ON THE RIGHT

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B005" SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

68 FT. WEST OF MAINLINE RAILROAD TRACK.
 40.5 FT. NORTH OF BOARD FENCE CORNER.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B005	Latitude	N 44°03'14.105975"	
	Longitude	W 121°18'23.842497"	
	Scale Factor	1.000160042826	
	Convergence	-0°00'58.2986"	
	Northing(y)	384227.3586	0.011252F
	Easting (x)	3293876.0667	0.010921F
	Ellipsoid Height	3573.9459	0.012233F
	Orthometric Height	3638.2754	0.015532F
	Geoid Height	-64.3295	0.009570F

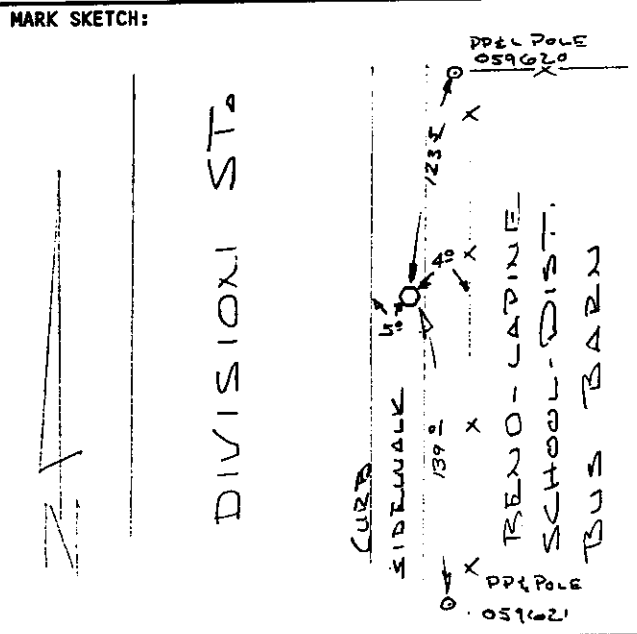
CONTROL MARK DATA

NAME OF MARK: B006 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK DESCRIPTION:
 TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 1.8 MI. TO WILSON AVE., TURN RIGHT & PROCEED WEST FOR 0.16 MI. TO DIVISION ST., TURN RIGHT & PROCEED NORTH FOR 0.1 MI TO THE MARK ON THE RIGHT

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B006" SET IN THE SURFACE OF THE EAST SIDEWALK.

5 FT. EAST OF EAST CURB FACE.
 139.0 FT. NORTH OF A POWER POLE.
 123.5 FT. SOUTH OF A POWER POLE.



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B006	Latitude	N 44°02'44.312637"	
	Longitude	W 121°18'20.612704"	
	Scale Factor	1.000160039601	
	Convergence	-0°00'56.0445"	
	Northing(y)	381209.8653	0.011620F
	Easting (x)	3294111.1538	0.011253F
	Ellipsoid Height	3614.2905	0.013094F
	Orthometric Height	3678.5459	0.016791F
	Geoid Height	-64.2554	0.010511F

CONTROL MARK DATA

NAME OF MARK: B007 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

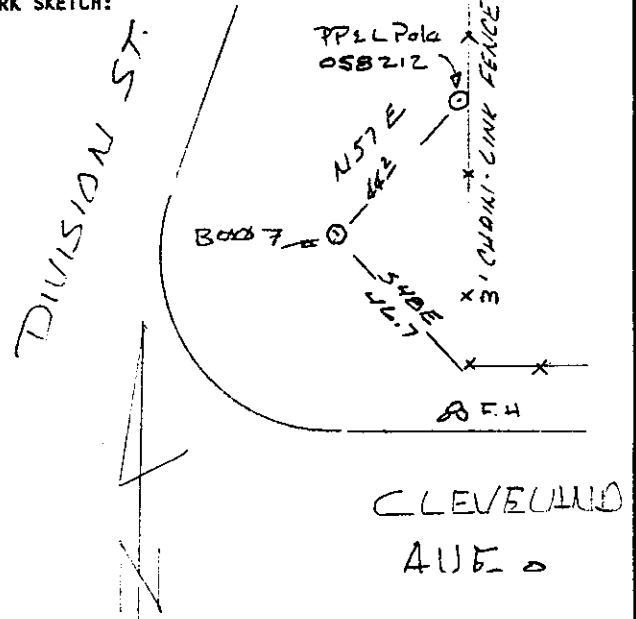
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 1.8 MI. TO WILSON AVE., TURN RIGHT & PROCEED WEST FOR 0.16 MI. TO DIVISION ST., TURN LEFT & PROCEED SOUTH FOR 0.24 MI TO THE MARK ON THE LEFT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B007" SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE. THE IS NEAR THE RADIUS OF THE NE CURB RETURN

44.2 FT. SW FROM A POWER POLE.
46.7 FT. NW FROM A CHAIN-LINK FENCE COR.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= <u>NAD (83-91)</u>	CENTRAL MERIDIAN: <u>W 121°17'00.000000"</u>
VERTICAL= <u>NGVD 29</u>	LATITUDE OF ORIGIN: <u>N 43°00'00.000000"</u>
COORDINATE SYSTEM: <u>TRANSVERSE MERCATOR</u>	ORIGIN NORTHING: <u>0.0000 F</u>
ZONE: <u>DESCHUTES COUNTY</u>	ORIGIN EASTING: <u>3,300,000.0000 F</u>
LINEAR UNITS: <u>INTERNATIONAL FOOT</u>	SCALE ALONG MERIDIAN: <u>1.000160000000</u>

GEODETTIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
B007	Latitude	N 44°02'27.019645"
	Longitude	W 121°18'21.072018"
	Scale Factor	1.000160040060
	Convergence	-0°00'56.3589"
	Northing (y)	379458.4663 0.010490F
	Easting (x)	3294077.1219 0.010372F
	Ellipsoid Height	3639.4525 0.012271F
	Orthometric Height	3703.6639 0.016525F
	Geoid Height	-64.2114 0.011068F

CONTROL MARK DATA

NAME OF MARK: B008 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

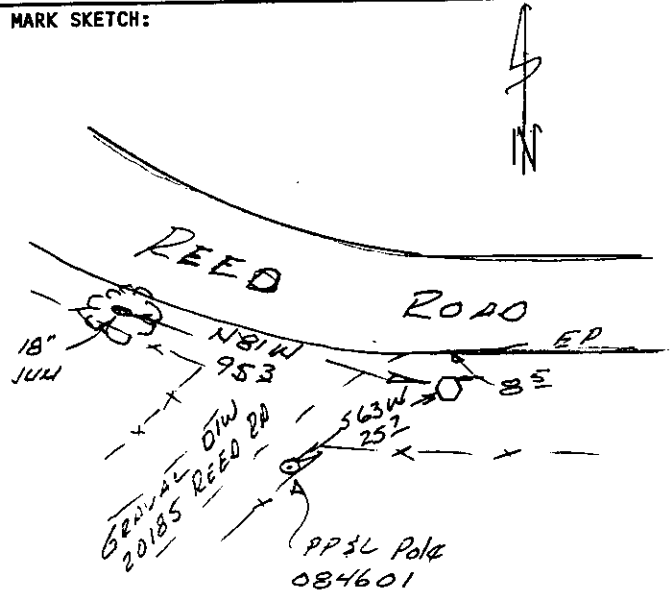
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 2.0 MI. TO REED ROAD, TURN RIGHT & PROCEED WEST FOR 0.27 MI. TO THE MARK ON THE LEFT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B008 SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

8.5 FT. SOUTH OF SOUTH ED OF RD.
 25.7 FT. NE FROM A POWER POLE.
 95.3 FT. SE FROM A JUNIPER TREE.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91)	CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29	LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR	ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY	ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT	SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
B008	Latitude	N 44°01'56.949175"
	Longitude	W 121°18'48.536165"
	Scale Factor	1.000160071819
	Convergence	-0°01'15.4398"
	Northing(y)	376413.6190 0.011461F
	Easting (x)	3292069.5598 0.011400F
	Ellipsoid Height	3687.6805 0.013100F
	Orthometric Height	3751.8184 0.017582F
	Geoid Height	-64.1379 0.011727F

CONTROL MARK DATA

NAME OF MARK: B009 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

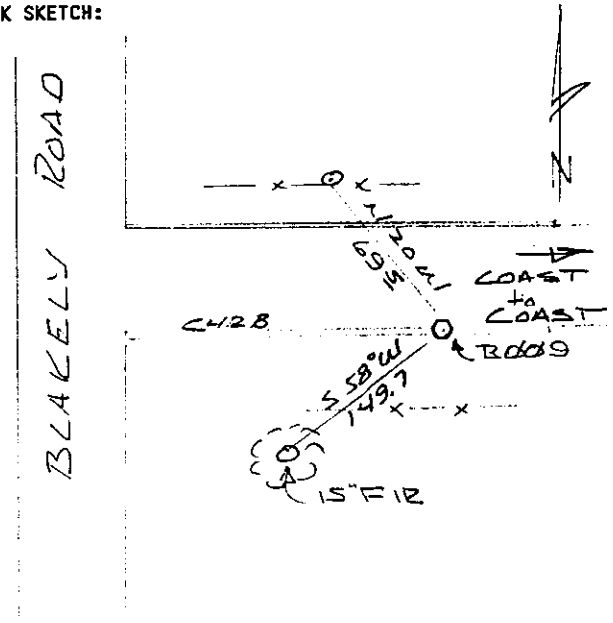
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 2.44 MI. TO THE ROAD INTO COAST TO COAST STORE, TURN RIGHT & PROCEED WEST FOR 0.19 MI. TO THE MARK ON THE LEFT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B009" GROUTED INTO THE TOP OF THE SOUTH CURB.

149.7 FT. NE FROM A 15" FIR TREE.
69.5 FT. SE FROM A YARD LIGHT POLE.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91)	CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29	LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR	ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY	ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT	SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B009	Latitude	N 44°01'36.926693"	
	Longitude	W 121°19'04.035684"	
	Scale Factor	1.000160093814	
	Convergence	-0°01'26.2043"	
	Northing(y)	374386.2208	0.007863F
	Easting (x)	3290936.2048	0.008004F
	Ellipsoid Height	3723.0593	0.010448F
	Orthometric Height	3787.1463	0.016355F
	Geoid Height	-64.0871	0.012583F

CONTROL MARK DATA

NAME OF MARK: B010 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

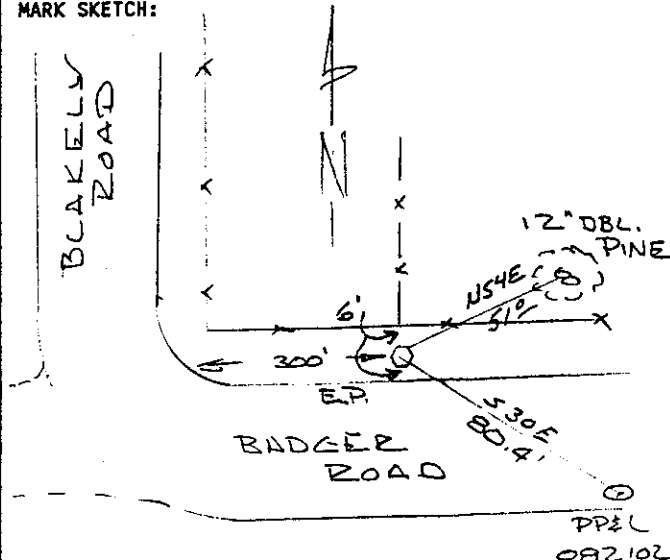
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 2.64 MI. TO BADGER ROAD, TURN RIGHT & PROCEED WEST FOR 0.16 MI. TO THE MARK ON THE RIGHT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B010" SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

6 FT. NORTH OF NORTH EDGE OF RD.
6 FT. SOUTH OF A WIRE FENCE.
300 FT EAST OF BLAKELY RD.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B010	Latitude	N 44°01'28.321010"	
	Longitude	W 121°19'05.034357"	
	Scale Factor	1.000160095338	
	Convergence	0°01'26.8947"	
	Northing(y)	373514.6835	0.011594F
	Easting (x)	3290862.8606	0.011377F
	Ellipsoid Height	3723.2493	0.013132F
	OrthoMetric Height	3787.3182	0.018420F
	Geoid Height	-64.0688	0.012917F

CONTROL MARK DATA

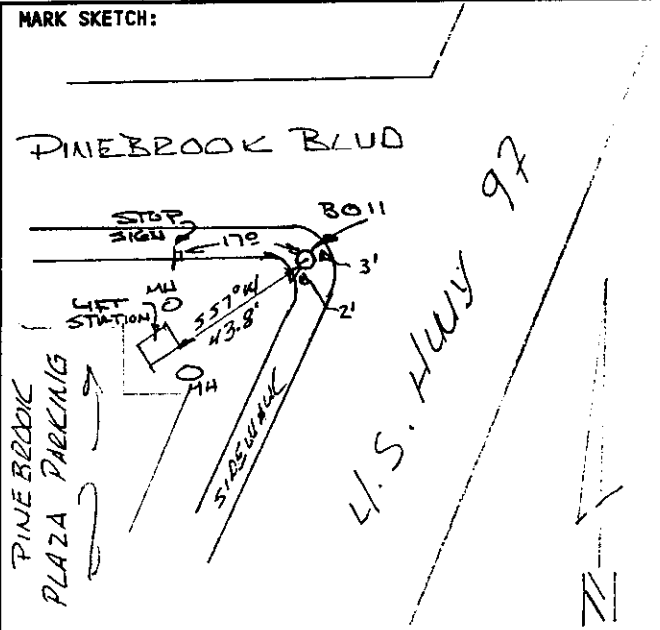
NAME OF MARK: B011 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK DESCRIPTION:
 TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 2.85 MI. TO THE MARK ON THE RIGHT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B011" GROUTED INTO THE CONCRETE SIDEWALK AN THE SW COR. OF 97 & PINEBROOK BLVD.

3 FT. WEST OF CURB FACE.
 17 FT. EAST OF STOP SIGN.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B011	Latitude	N 44°01'16.638100"	
	Longitude	W 121°18'58.907837"	
	Scale Factor	1.000160086234	
	Convergence	-0°01'22.6321"	
	Northing(y)	372331.2762	0.011777F
	Easting (x)	3291310.0944	0.011678F
	Ellipsoid Height	3720.9551	0.013249F
	OrthoMetric Height	3784.9941	0.018770F
	Geoid Height	-64.0390	0.013296F

CONTROL MARK DATA

NAME OF MARK: B012 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

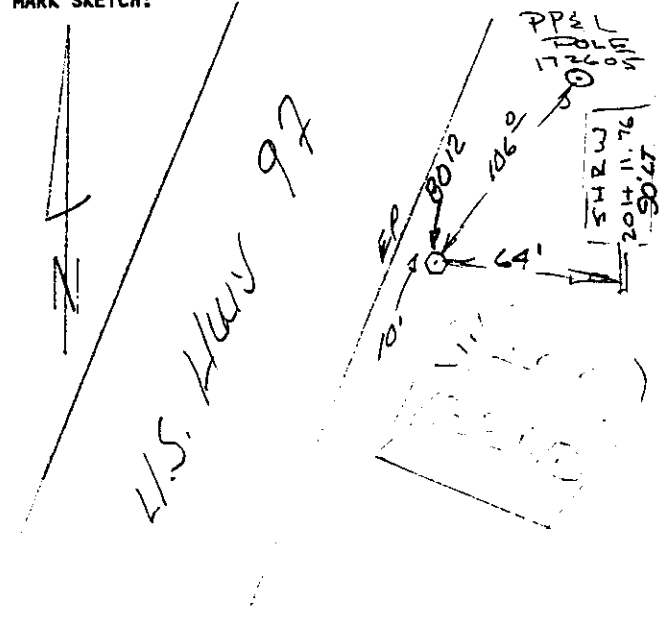
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 3.21 MI. TO THE MARK ON THE LEFT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B012" SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

10 FT. EAST OF EAST EDGE OF HWY 97
106 FT. SW FROM A POWER POLE.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B012	Latitude	N 44°00'58.373239"	
	Longitude	W 121°19'05.213924"	
	Scale Factor	1.000160095639	
	Convergence	-0°01'27.0064"	
	Northing(y)	370481.6361	0.011539F
	Easting (x)	3290848.4588	0.011373F
	Ellipsoid Height	3727.8585	0.012897F
	OrthoMetric Height	3791.8544	0.018622F
	Geoid Height	-63.9958	0.013433F

CONTROL MARK DATA

NAME OF MARK: B013 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

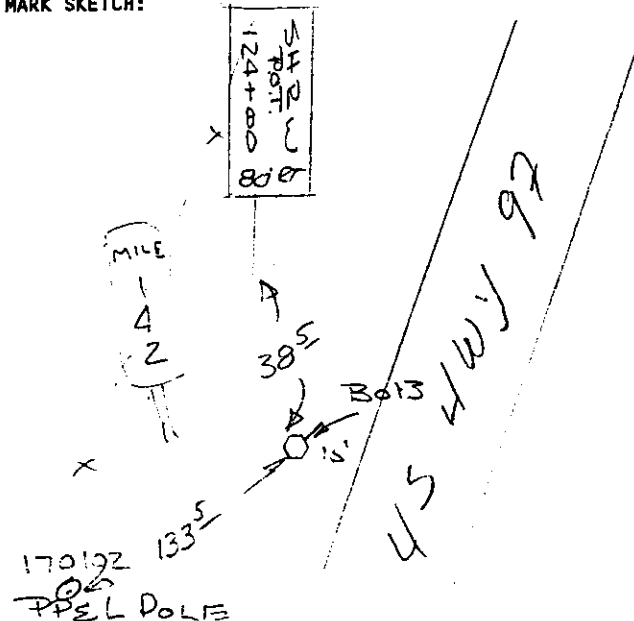
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED SOUTH ON HWY. 97 FOR 3.64 MI. TO THE MARK ON THE RIGHT.

THE MARK IS A STANDARD OREGON STATE HIGHWAY REFERENCE BRASS CAP MARKED "GPS B013" SET 1 FT. BELOW GROUND LEVEL IN A 6" STEEL PIPE IN CONCRETE.

6 FT. WEST OF WEST EDGE OF HWY. 97
133.5 FT. NORTHERLY FROM A POWER POLE.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
B013	Latitude	N 44°00'38.581111"	
	Longitude	W 121°19'19.550405"	
	Scale Factor	1.000160118816	
	Convergence	-0°01'36.9586"	
	Northing(y)	368477.5970	0.010992F
	Easting (x)	3289799.7025	0.010564F
	Ellipsoid Height	3770.6373	0.012537F
	OrthoMetric Height	3834.5894	0.018080F
	Geoid Height	-63.9521	0.013027F

CONTROL MARK DATA

NAME OF MARK: B014 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

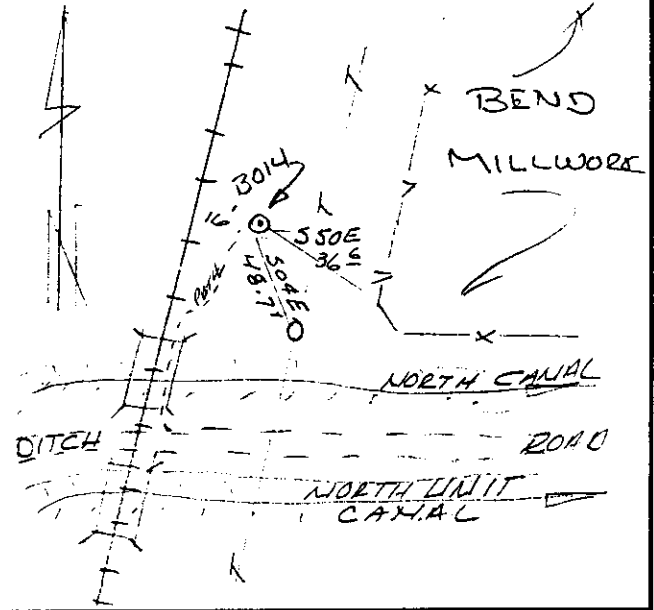
MARK DESCRIPTION:

TO REACH THE MARK FROM THE INTERSECTION OF HWY. 97 (3 RD STREET) & HWY. 20 (GREENWOOD AVE.) PROCEED NORTH ON HWY. 97 FOR 0.5 MI. TO REVERE ST. AND TURN LEFT & PROCEED 0.18 MI. TO DIVISION ST. & PROCEED NORTH FOR 0.6 MI. & TURN RIGHT ON CANAL RD. & PROCEED EASTERLY FOR 0.35 MI TO THE MARK ON THE LEFT.

THE MARK IS A 1 1/2 " ALUM. CAP ON A 1/2" I.R. & MARKED "WB 9 1988" FLUSH WITH GROUND LEVEL.

16 FT. EAST OF RAILROAD.
 36.6 FT. FROM FENCE CORNER.
 48.7 FT. FROM TELEGRAPH POLE.

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

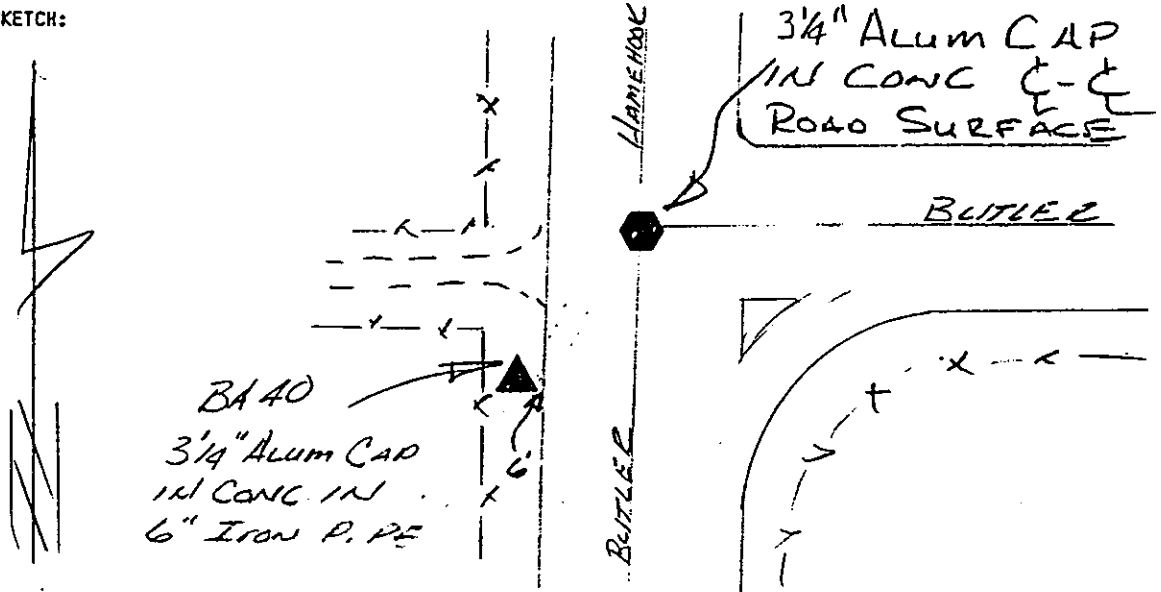
GEODETTIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
B014	Latitude	N 44°04'49.058014"
	Longitude	W 121°18'01.396639"
	Scale Factor	1.000160022944
	Convergence	-0°00'42.7115"
	Northing (y)	393843.5969 0.015181F
	Easting (x)	3295517.5237 0.014853F
	Ellipsoid Height	3497.6613 0.016416F
	OrthoMetric Height	3562.2071 0.020314F
	Geoid Height	-64.5458 0.011965F

CONTROL MARK DATA

NAME OF MARK: BA40 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

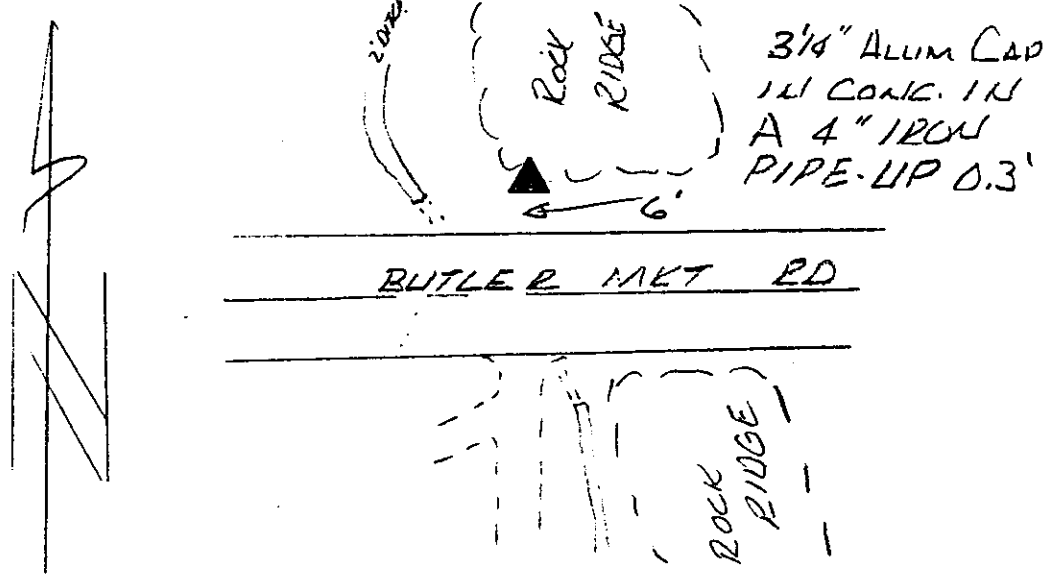
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>BA40</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°05'40.718601"	ONE SIGMA ERROR
Longitude:	121°14'36.850794"	
Northing:	399077.8028	0.013
Easting:	3310448.5819	0.011
Convergence:	+0°01'39.6098"	
Scale Factor:	1.000160124668	
Ellipsoid Height:	3373.624	0.022
Orthometric Height:	3438.16	0.033
Geoid Height:	-64.536	

CONTROL MARK DATA

NAME OF MARK: BA50 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

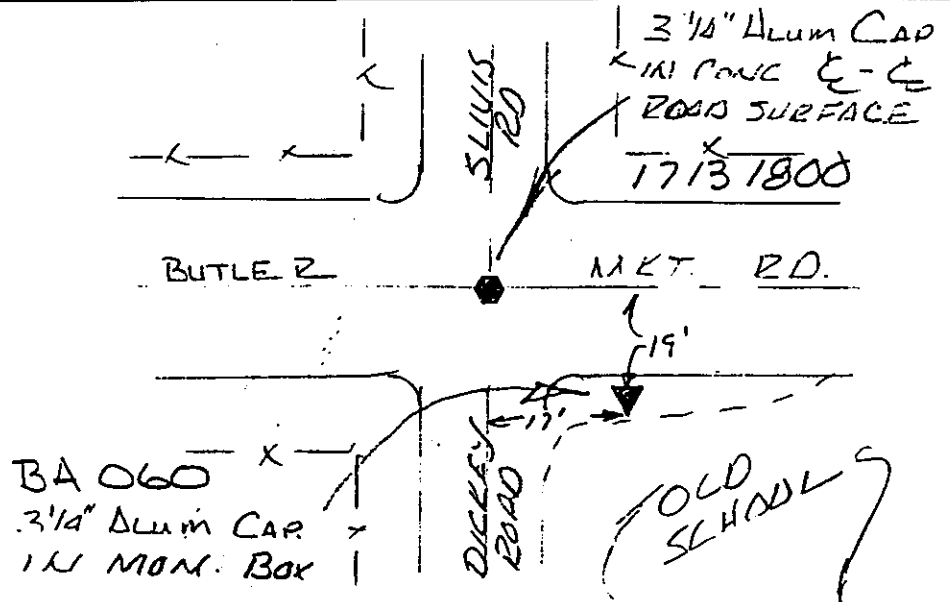
GEODITIC AND MAPPING COORDINATES

<u>MARK: BA50</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.982770"	ONE SIGMA ERROR
Longitude:	121°13'54.925410"	
Northing:	399106.252	0.009
Easting:	3313508.7346	0.008
Convergence:	+0°02'08.7835"	
Scale Factor:	1.000160208386	
Ellipsoid Height:	3398.674	0.016
Orthometric Height:	3463.1814	0.030
Geoid Height:	-64.5075	

CONTROL MARK DATA

NAME OF MARK: BA60 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

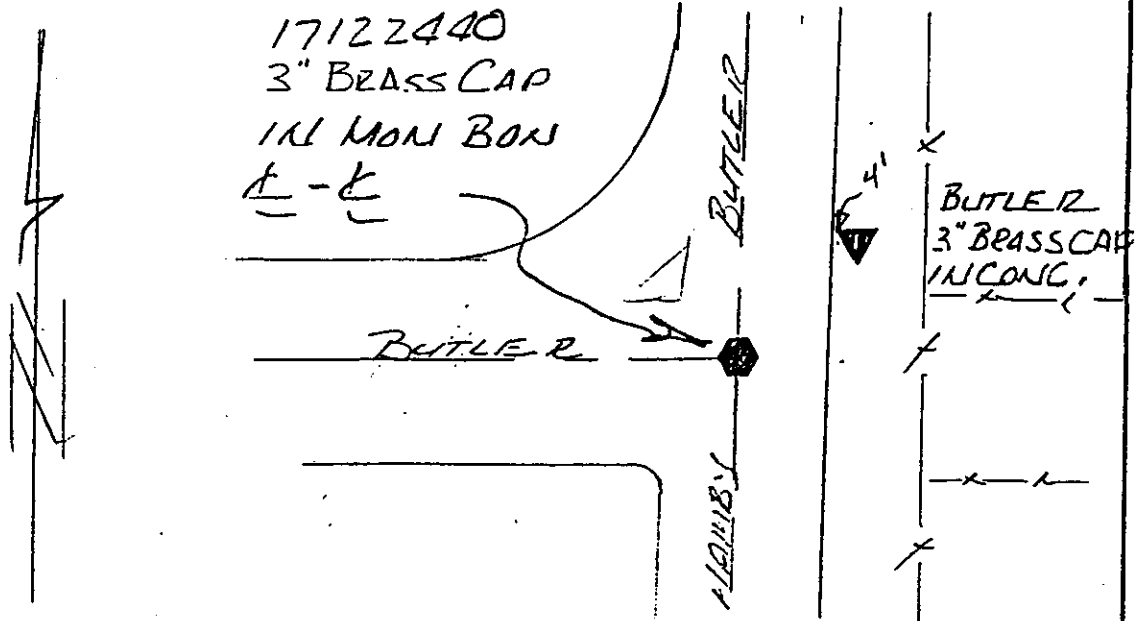
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>BA60</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.518975"	ONE SIGMA ERROR
Longitude:	121°13'24.383734"	
Northing:	399060.7857	0.013
Easting:	3315738.0288	0.011
Convergence:	+0°02'30.0355"	
Scale Factor:	1.000160282840	
Ellipsoid Height:	3395.7534	0.022
Orthometric Height:	3460.2329	0.033
Geoid Height:	-64.4795	

CONTROL MARK DATA

NAME OF MARK: BUTLER COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: BUTLER

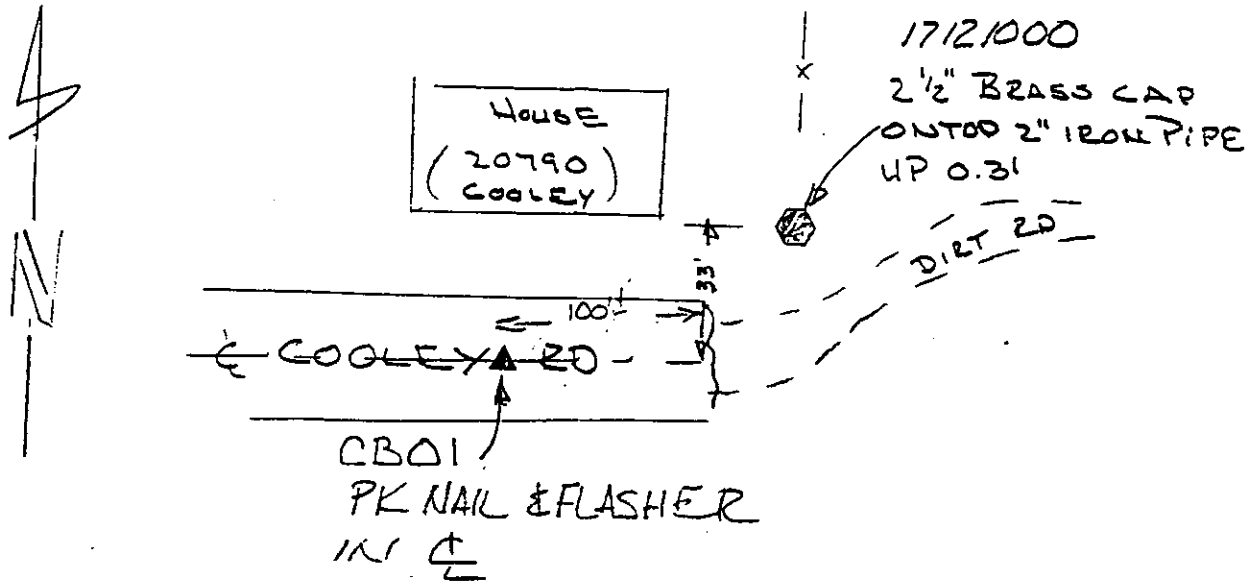
HORIZONTAL ORDER: FIRST

Latitude:	44°05'15.266512"	ONE SIGMA ERROR
Longitude:	121°14'36.436265"	
Northing:	396500.0465	0.009
Easting:	3310480.0871	0.007
Convergence:	+0°01'39.8855"	
Scale Factor:	1.000160125421	
Ellipsoid Height:	3410.0212	0.015
Orthometric Height:	3474.5074	0.029
Geoid Height:	-64.4861	

CONTROL MARK DATA

NAME OF MARK: CB01 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

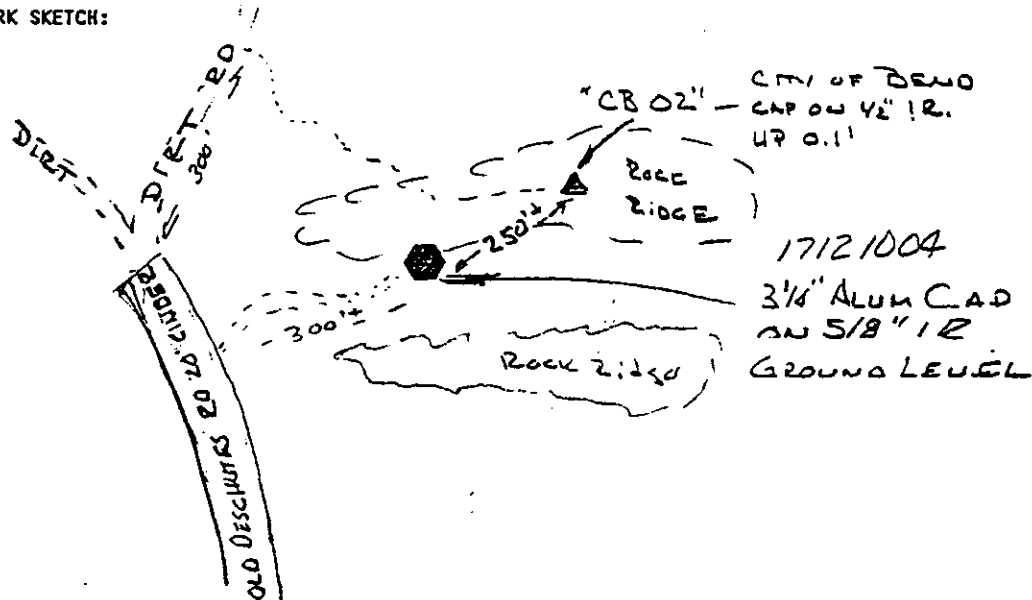
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB01</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°06'32.652797"	ONE SIGMA ERROR
Longitude:	121°17'02.568844"	
Northing:	404335.152	0.012
Easting:	3299812.5435	0.009
Convergence:	-0°00'01.7880"	
Scale Factor:	1.000160000040	
Ellipsoid Height:	3397.9612	0.021
Orthometric Height:	3462.711	0.034
Geoid Height:	-64.7498	

CONTROL MARK DATA

NAME OF MARK: CB02 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

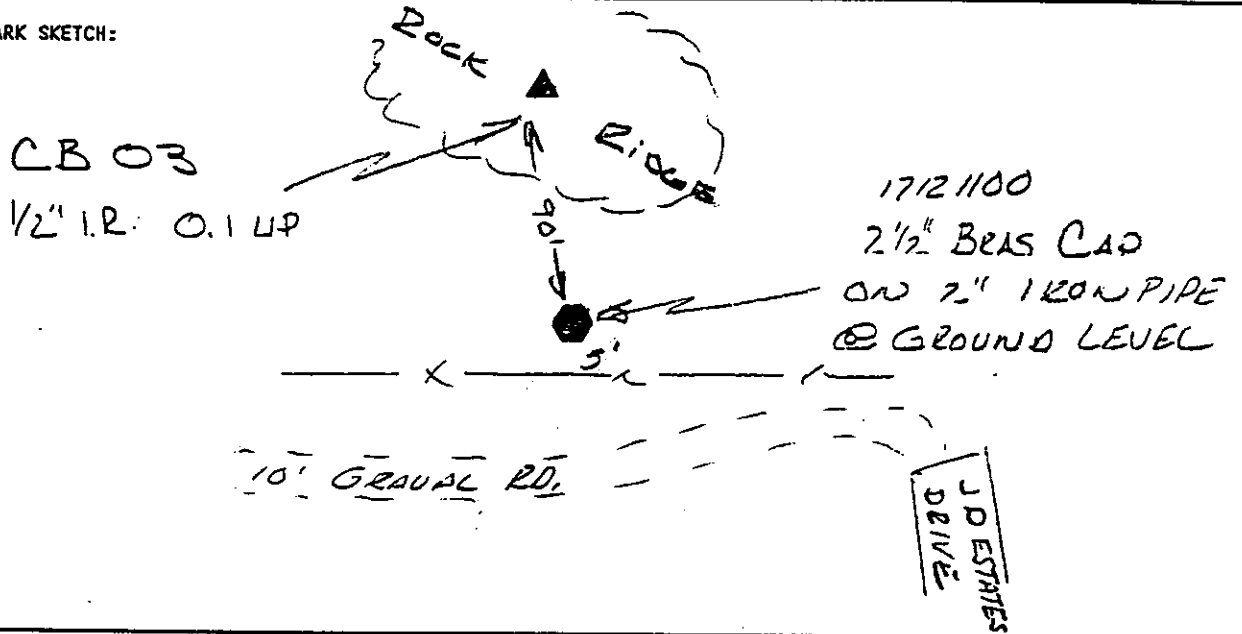
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB02</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'34.938716"	ONE SIGMA ERROR
Longitude:	121°16'22.707156"	
Northing:	404566.8395	0.012
Easting:	3302721.3454	0.011
Convergence:	+0°00'25.9571"	
Scale Factor:	1.000160008457	
Ellipsoid Height:	3400.8831	0.022
Orthometric Height:	3465.6071	0.034
Geoid Height:	-64.724	

CONTROL MARK DATA

NAME OF MARK: CB03 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

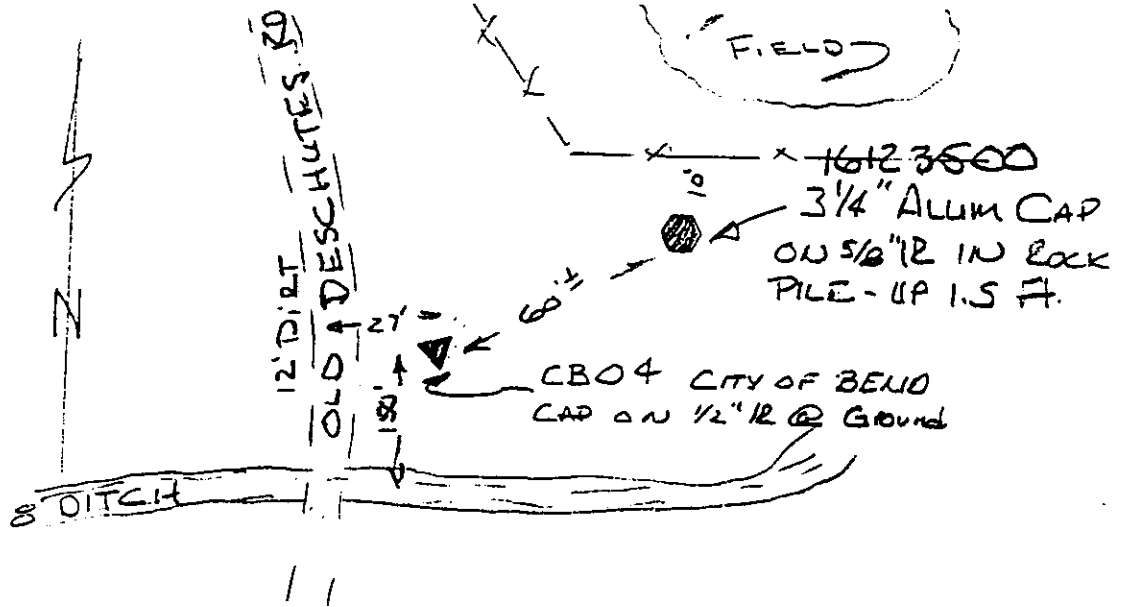
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB03</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'34.344780"	ONE SIGMA ERROR
Longitude:	121°15'49.998510"	
Northing:	404507.118	0.011
Easting:	3305108.1853	0.010
Convergence:	+0°00'48.7233"	
Scale Factor:	1.000160029797	
Ellipsoid Height:	3377.0975	0.019
Orthometric Height:	3441.8	0.032
Geoid Height:	-64.7025	

CONTROL MARK DATA

NAME OF MARK: CB04 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

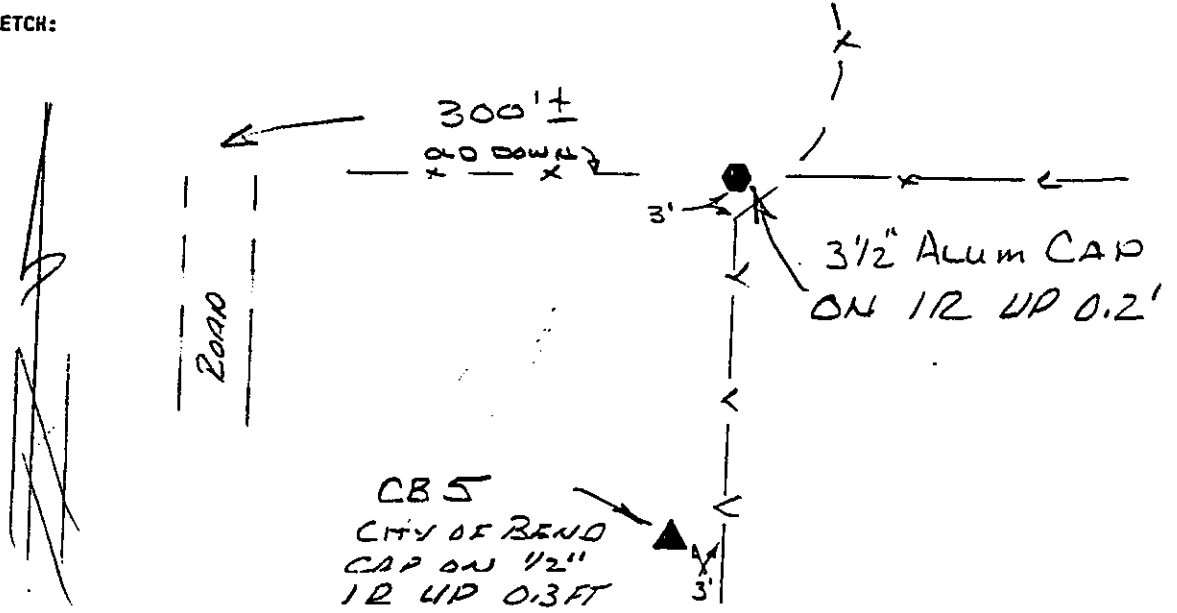
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB04</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°08'17.360059"	ONE SIGMA ERROR
Longitude:	121°15'50.005241"	
Northing:	414940.4978	0.012
Easting:	3305105.2292	0.011
Convergence:	+0°00'48.7437"	
Scale Factor:	1.000160029762	
Ellipsoid Height:	3247.42	0.021
Orthometric Height:	3312.3456	0.034
Geoid Height:	-64.9256	

CONTROL MARK DATA

NAME OF MARK: CB05 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

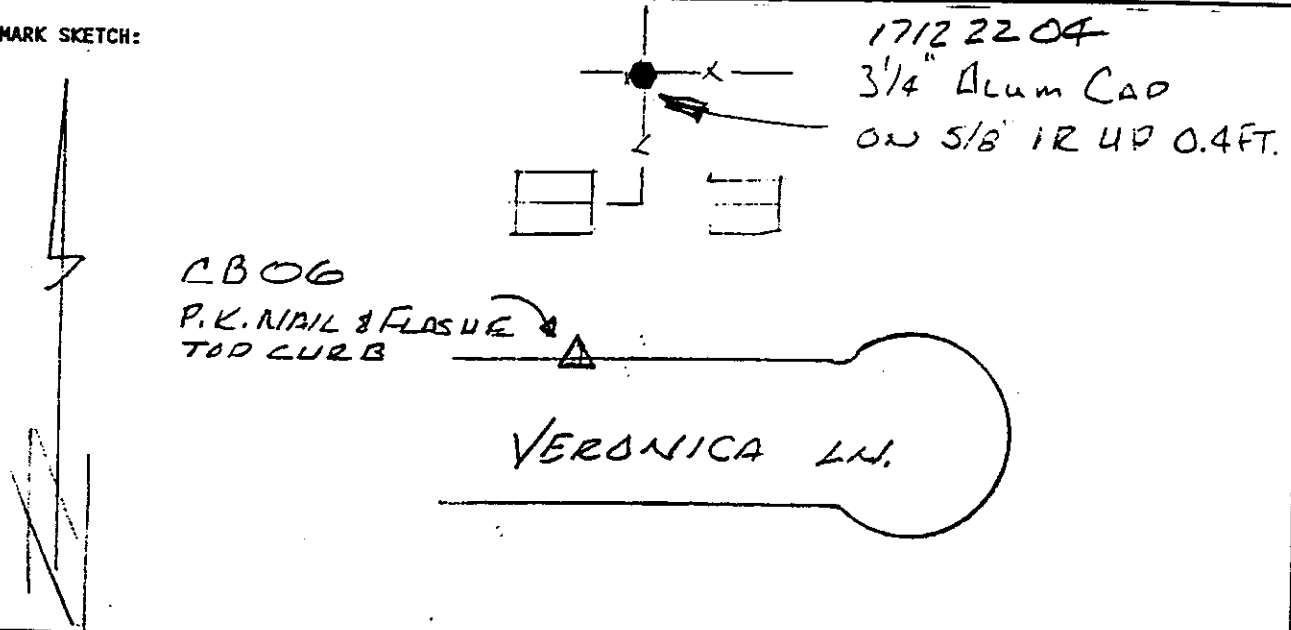
MARK: CB05 HORIZONTAL ORDER: FIRST

Latitude:	44°06'06.734990"	ONE SIGMA ERROR
Longitude:	121°15'49.581455"	
Northing:	401710.8165	0.011
Easting:	3305139.2833	0.011
Convergence:	+0°00'49.0068"	
Scale Factor:	1.000160030161	
Ellipsoid Height:	3391.7025	0.020
Orthometric Height:	3456.3455	0.033
Geoid Height:	-64.643	

CONTROL MARK DATA

NAME OF MARK: CB06 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

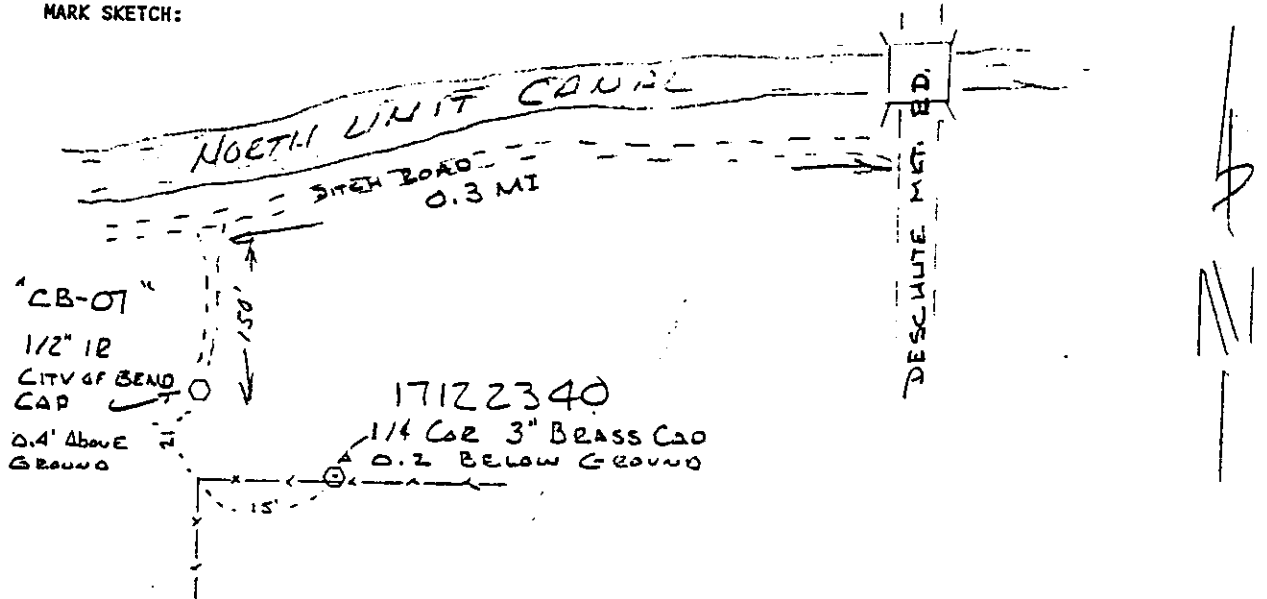
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB06</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'47.496608"	ONE SIGMA ERROR
Longitude:	121°16'25.461206"	
Northing:	393685.1418	0.012
Easting:	3302521.6439	0.011
Convergence:	+0°00'24.0273"	
Scale Factor:	1.000160007261	
Ellipsoid Height:	3450.2657	0.023
Orthometric Height:	3514.7546	0.034
Geoid Height:	-64.4889	

CONTROL MARK DATA

NAME OF MARK: CB07 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

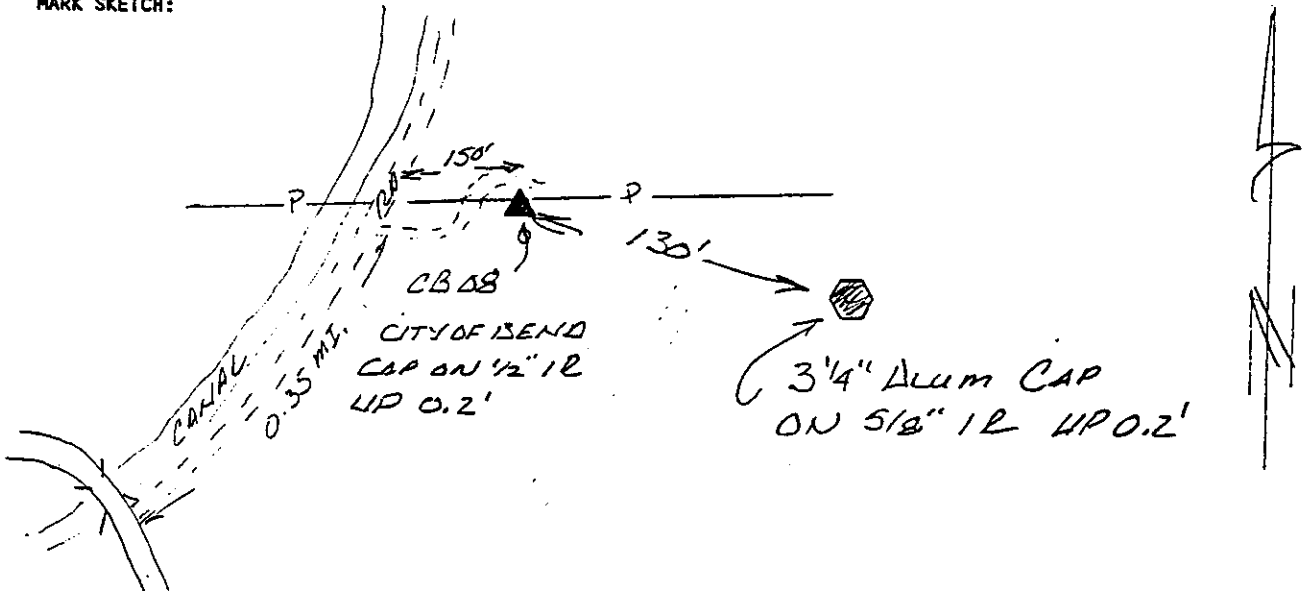
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB07</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'15.147780"	ONE SIGMA ERROR
Longitude:	121°15'49.842993"	
Northing:	396486.0899	0.011
Easting:	3305121.4323	0.011
Convergence:	+0°00'48.8122"	
Scale Factor:	1.000160029952	
Ellipsoid Height:	3414.5953	0.020
Orthometric Height:	3479.1252	0.032
Geoid Height:	-64.5299	

CONTROL MARK DATA

NAME OF MARK: CB08 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK: CB08</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.785490"	ONE SIGMA ERROR
Longitude:	121°14'38.406366"	
Northing:	404452.3383	0.012
Easting:	3310332.4718	0.013
Convergence:	+0°01'38.5535"	
Scale Factor:	1.000160121912	
Ellipsoid Height:	3354.6185	0.020
Orthometric Height:	3419.2677	0.032
Geoid Height:	-64.6492	

CONTROL MARK DATA

NAME OF MARK: CB09 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO SURVEYOR STATE: OREGON
DATE OF MARK: 1992 COUNTRY: U.S.A.
LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 7

MARK SKETCH:

DESTROYED

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

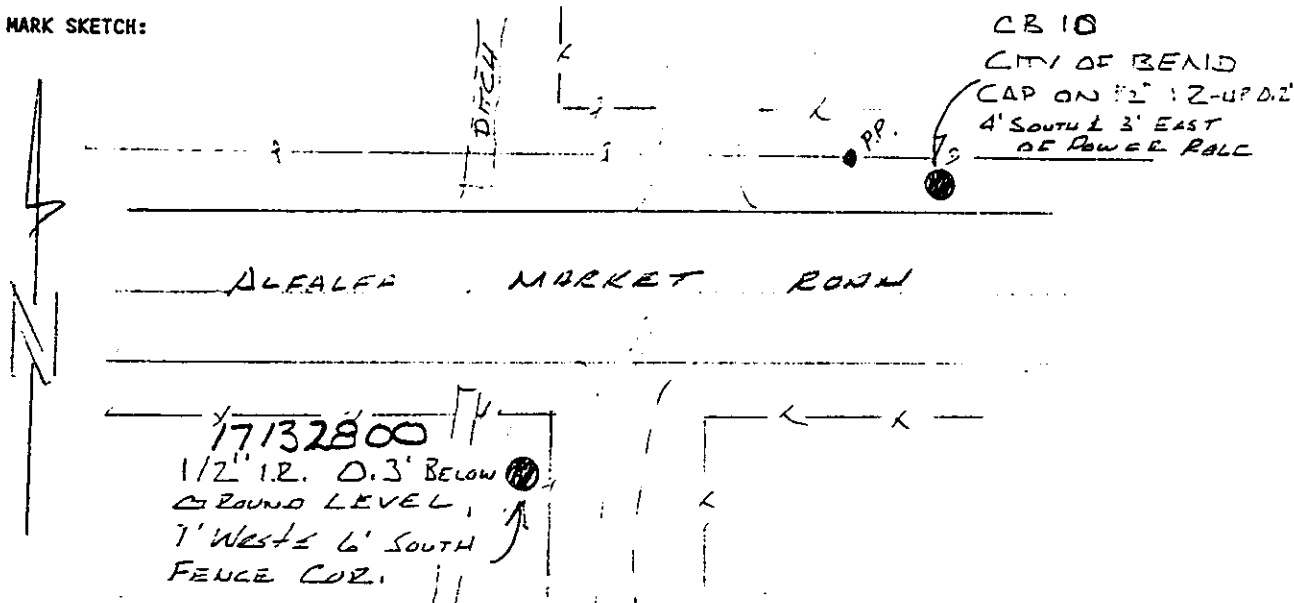
MARK: CB09 HORIZONTAL ORDER: FIRST

Latitude:	44°06'08.482019"	ONE SIGMA ERROR
Longitude:	121°13'25.019553"	
Northing:	401892.8345	0.015
Easting:	3315689.5658	0.013
Convergence:	+0°02'29.6140"	
Scale Factor:	1.000160281100	
Ellipsoid Height:	3366.4696	0.025
Orthometric Height:	3431.0052	0.035
Geoid Height:	-64.5357	

CONTROL MARK DATA

NAME OF MARK: CB10 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

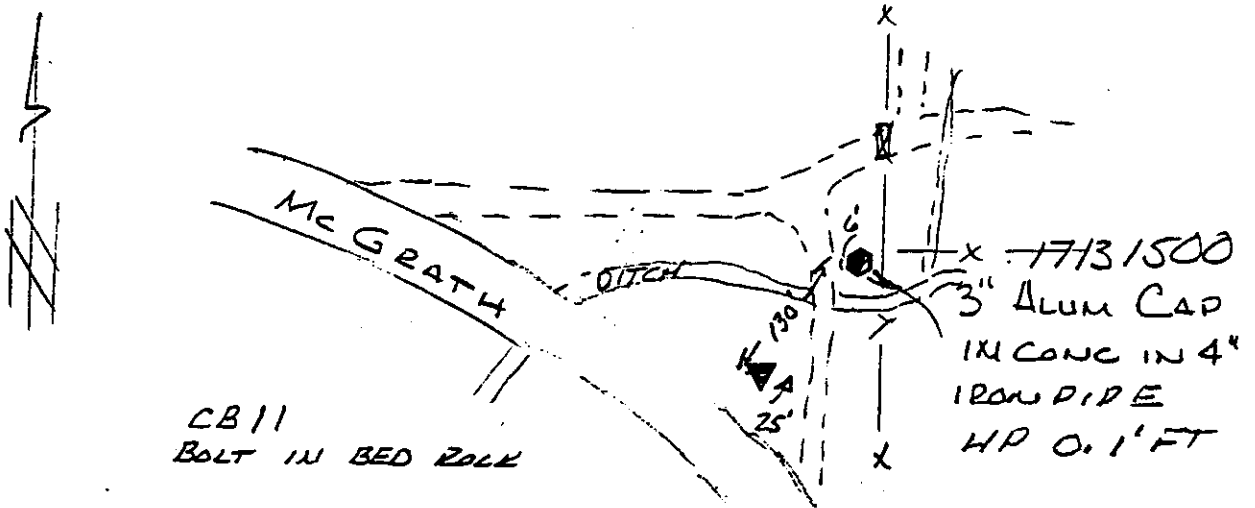
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB10</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°03'57.017698"	ONE SIGMA ERROR
Longitude:	121°10'59.067202"	
Northing:	388588.579	0.011
Easting:	3326357.5765	0.010
Convergence:	+0°04'11.0233"	
Scale Factor:	1.000160793330	
Ellipsoid Height:	3420.9963	0.020
Orthometric Height:	3485.1885	0.032
Geoid Height:	-64.1922	

CONTROL MARK DATA

NAME OF MARK: CB11 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

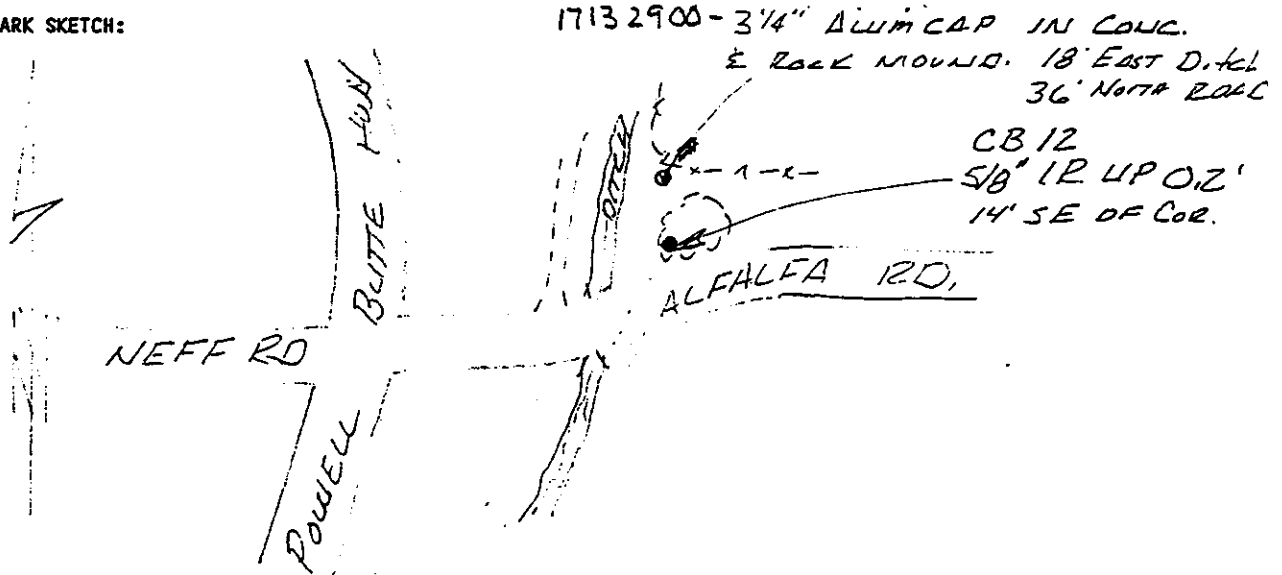
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB11</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°05'39.299515"	ONE SIGMA ERROR
Longitude:	121°09'47.698614"	
Northing:	398954.5648	0.014
Easting:	3331554.2551	0.012
Convergence:	+0°05'00.8131"	
Scale Factor:	1.000161136989	
Ellipsoid Height:	3290.5635	0.025
Orthometric Height:	3354.8501	0.035
Geoid Height:	-64.2865	

CONTROL MARK DATA

NAME OF MARK: CB12 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

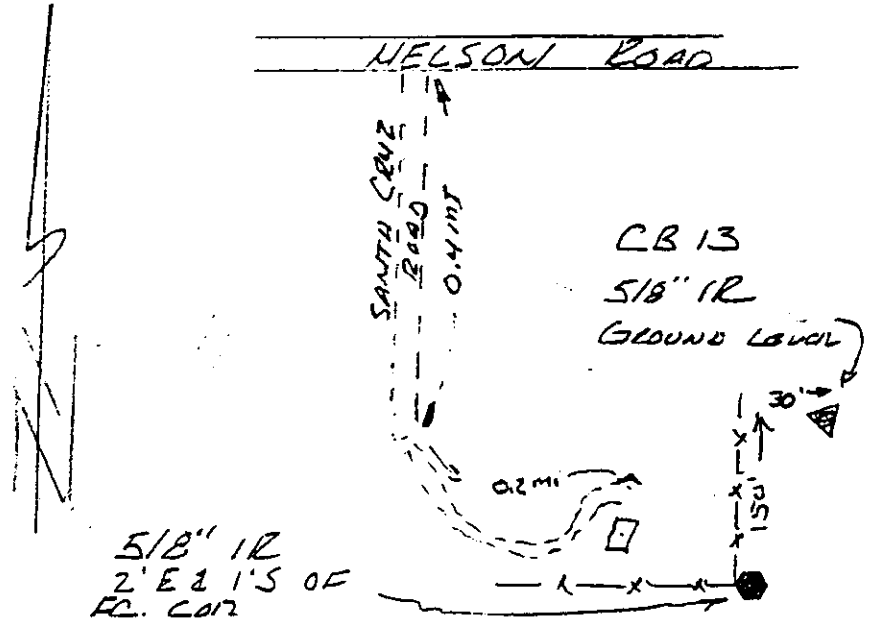
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB12</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°03'56.177990"	ONE SIGMA ERROR
Longitude:	121°12'12.380199"	
Northing:	388497.6804	0.009
Easting:	3321003.884	0.008
Convergence:	+0°03'20.0343"	
Scale Factor:	1.000160503781	
Ellipsoid Height:	3477.3591	0.016
Orthometric Height:	3541.5984	0.029
Geoid Height:	-64.2393	

CONTROL MARK DATA

NAME OF MARK: CB13 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

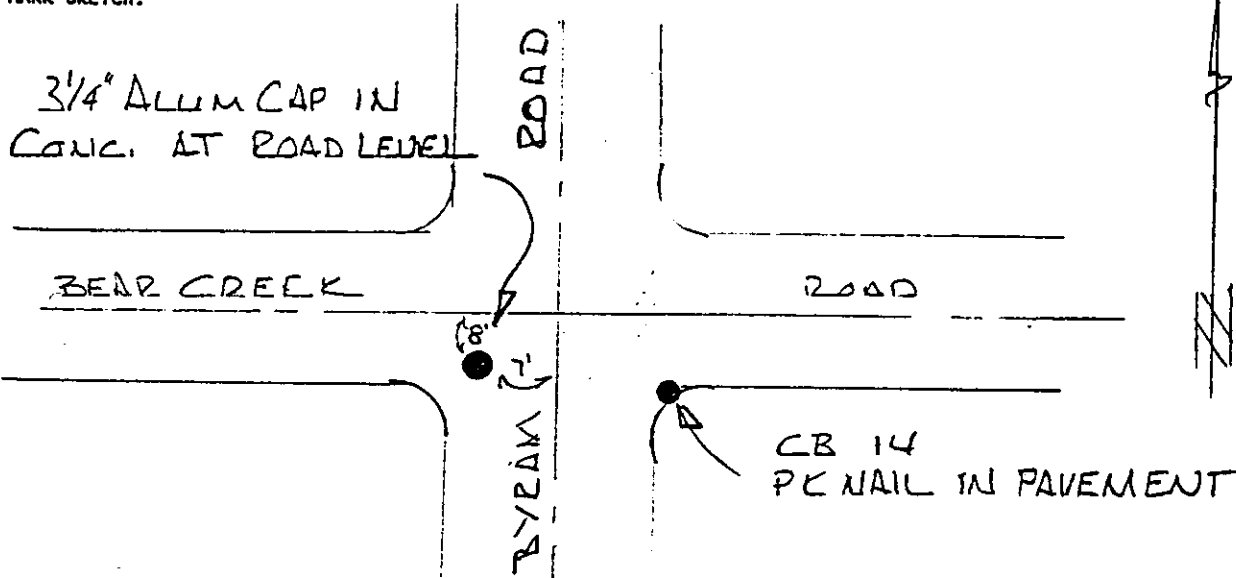
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB13</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°04'50.018695"	ONE SIGMA ERROR
Longitude:	121°10'59.440098"	
Northing:	393956.4355	0.014
Easting:	3326323.8185	0.014
Convergence:	+0°04'10.8305"	
Scale Factor:	1.000160791297	
Ellipsoid Height:	3376.5594	0.024
Orthometric Height:	3440.8316	0.034
Geoid Height:	-64.2722	

CONTROL MARK DATA

NAME OF MARK: CB14 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

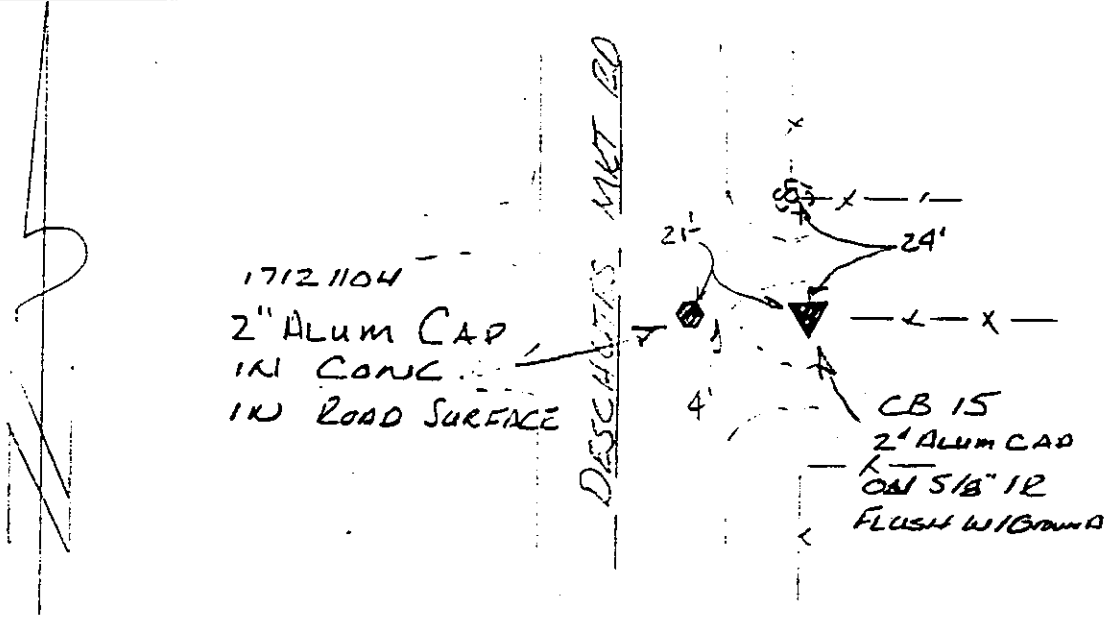
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB14</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.169910"	ONE SIGMA ERROR
Longitude:	121°11'35.654143"	
Northing:	383233.1333	0.011
Easting:	3323691.6213	0.010
Convergence:	+0°03'45.5179"	
Scale Factor:	1.000160640965	
Ellipsoid Height:	3485.0284	0.020
Orthometric Height:	3549.1492	0.032
Geoid Height:	-64.1208	

CONTROL MARK DATA

NAME OF MARK: CB15 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

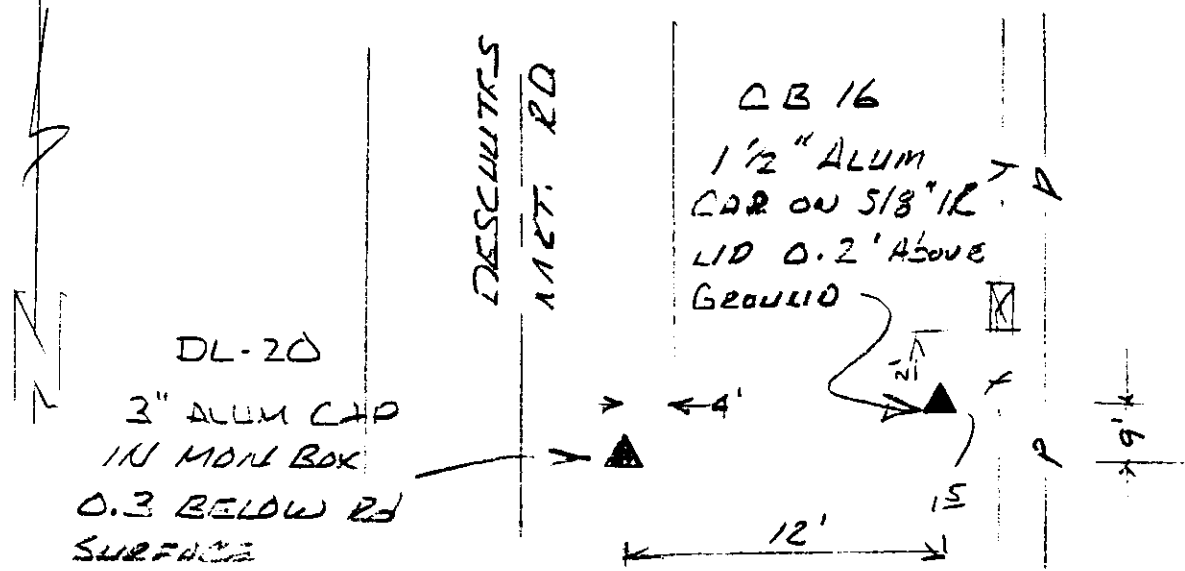
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB15</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.426082"	ONE SIGMA ERROR
Longitude:	121°15'12.900723"	
Northing:	404414.8814	0.013
Easting:	3307815.3381	0.014
Convergence:	+0°01'14.5442"	
Scale Factor:	1.000160069748	
Ellipsoid Height:	3343.3155	0.021
Orthometric Height:	3407.9898	0.033
Geoid Height:	-64.6743	

CONTROL MARK DATA

NAME OF MARK: CB16 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL=	NAD (83-91)	CENTRAL MERIDIAN:	W 121°17'00.000000"
VERTICAL=	NGVD 29	LATITUDE OF ORIGIN:	N 43°00'00.000000"
COORDINATE SYSTEM:	TRANSVERSE MERCATOR	ORIGIN NORTHING:	0.0000 F
ZONE:	DESCHUTES COUNTY	ORIGIN EASTING:	3,300,000.0000 F
LINEAR UNITS:	INTERNATIONAL FOOT	SCALE ALONG MERIDIAN:	1.000160000000

GEODITIC AND MAPPING COORDINATES

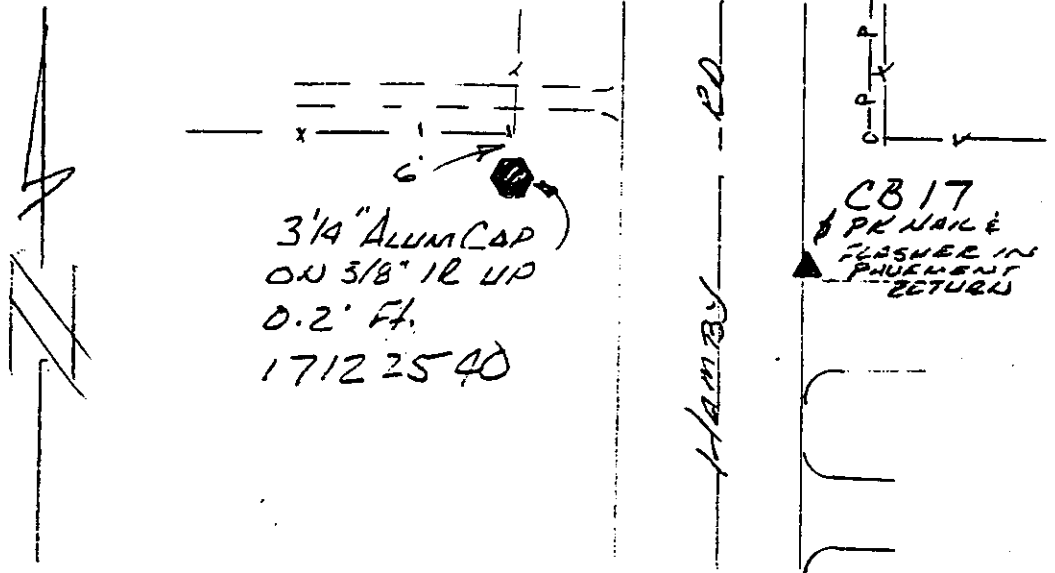
MARK: CB16 HORIZONTAL ORDER: FIRST

Latitude:	44°07'05.369018"	ONE SIGMA ERROR
Longitude:	121°15'12.777588"	
Northing:	407650.0572	0.014
Easting:	3307823.1529	0.018
Convergence:	+0°01'14.6419"	
Scale Factor:	1.000160069888	
Ellipsoid Height:	3311.3003	0.022
Orthometric Height:	3376.0396	0.034
Geoid Height:	-64.7393	

CONTROL MARK DATA

NAME OF MARK: CB17 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

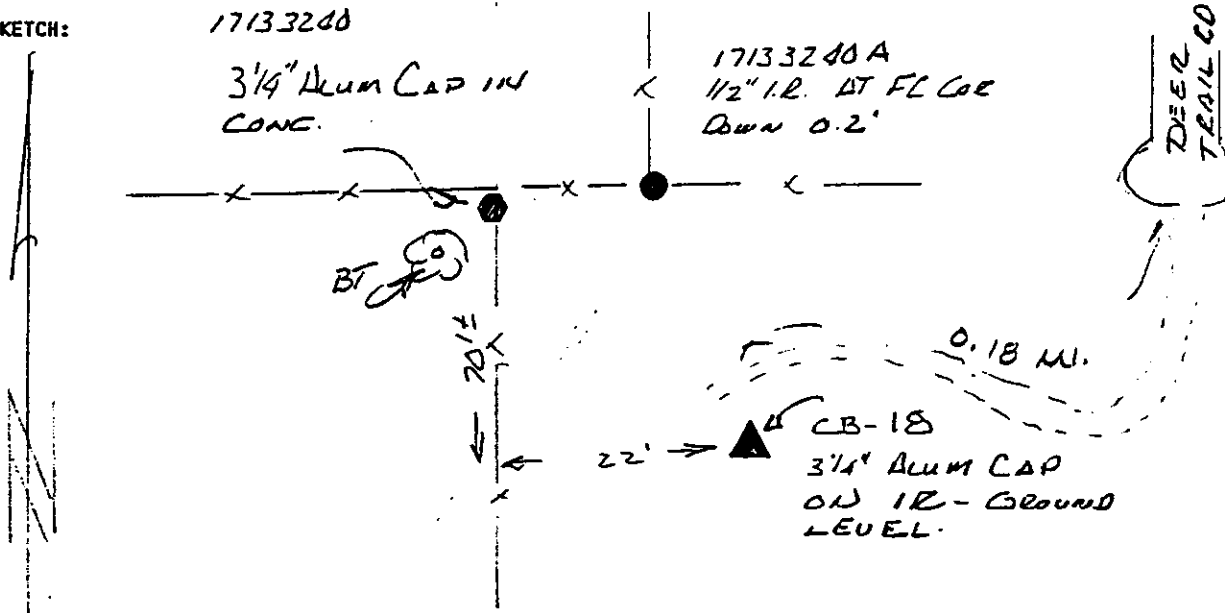
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB17</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°04'22.356141"	ONE SIGMA ERROR
Longitude:	121°14'36.454425"	
Northing:	391141.328	0.010
Easting:	3310481.3558	0.009
Convergence:	+0°01'39.8464"	
Scale Factor:	1.000160125452	
Ellipsoid Height:	3473.9335	0.018
Orthometric Height:	3538.31	0.031
Geoid Height:	-64.3765	

CONTROL MARK DATA

NAME OF MARK: CB18 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

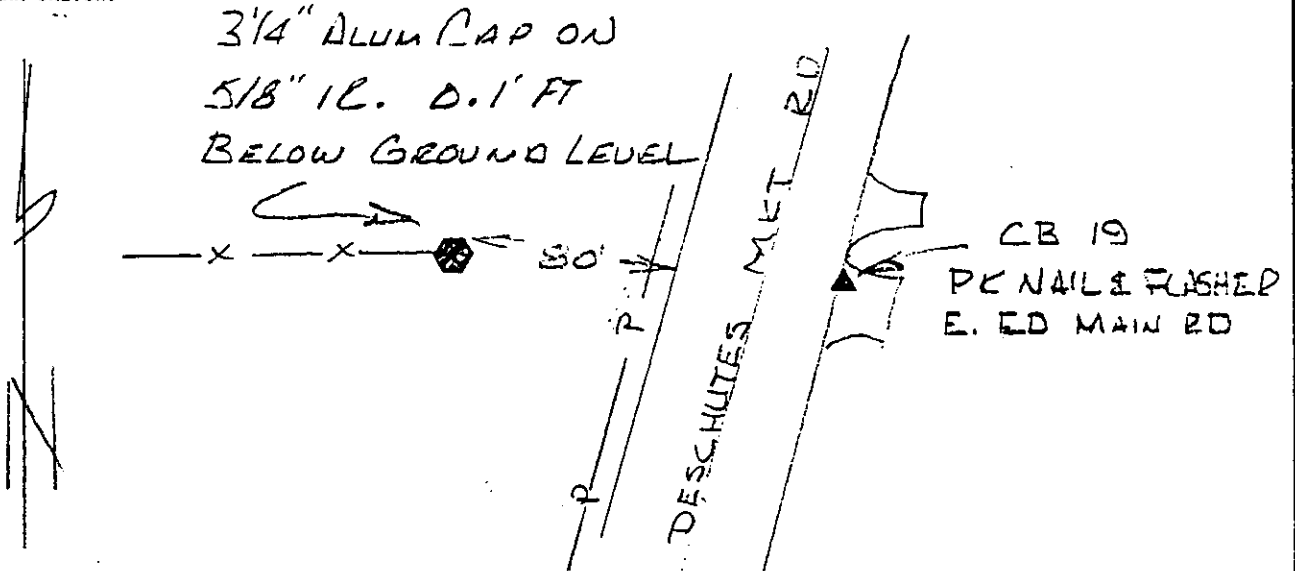
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB18</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'29.528626"	ONE SIGMA ERROR
Longitude:	121°12'12.105935"	
Northing:	385798.6835	0.013
Easting:	3321026.5324	0.011
Convergence:	+0°03'20.1984"	
Scale Factor:	1.000160504869	
Ellipsoid Height:	3488.3887	0.022
Orthometric Height:	3552.5782	0.033
Geoid Height:	-64.1895	

CONTROL MARK DATA

NAME OF MARK: CB19 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

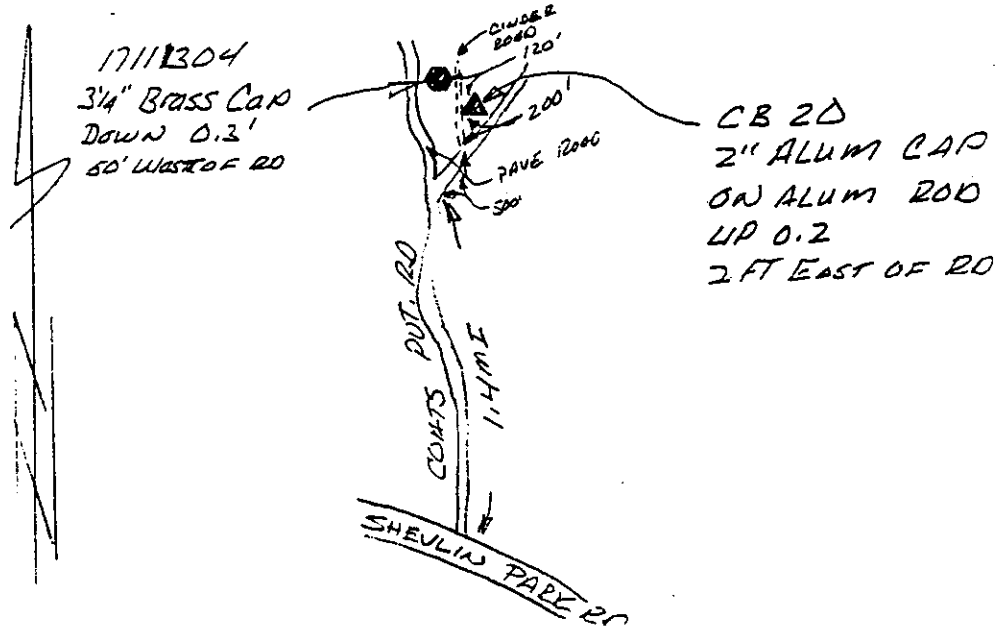
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB19</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°07'25.535707"	ONE SIGMA ERROR
Longitude:	121°15'11.817755"	
Northing:	409692.5624	0.012
Easting:	3307892.4385	0.011
Convergence:	+0°01'15.3176"	
Scale Factor:	1.000160071131	
Ellipsoid Height:	3295.2594	0.022
Orthometric Height:	3360.0402	0.034
Geoid Height:	-64.7807	

CONTROL MARK DATA

NAME OF MARK: CB20 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

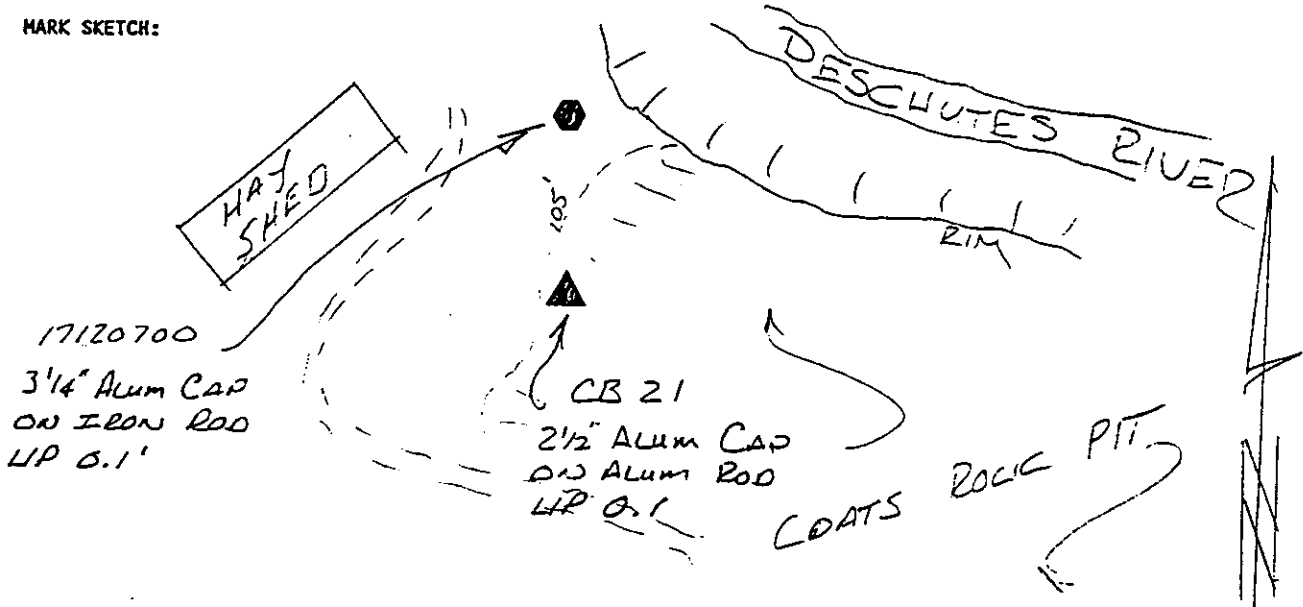
MARK: CB20 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.410113"	ONE SIGMA ERROR
Longitude:	121°21'12.181668"	
Northing:	399051.8662	0.014
Easting:	3281593.0195	0.013
Convergence:	-0°02'55.4793"	
Scale Factor:	1.000160386906	
Ellipsoid Height:	3584.7769	0.021
Orthometric Height:	3649.4436	0.024
Geoid Height:	-64.6667	

CONTROL MARK DATA

NAME OF MARK: CB21 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

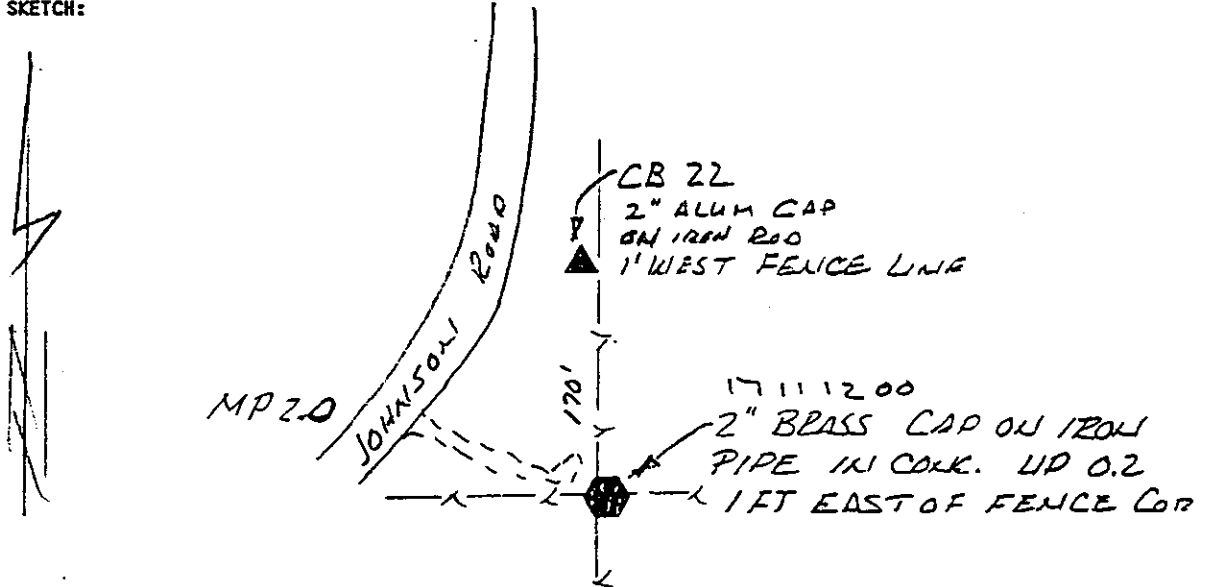
GEODITIC AND MAPPING COORDINATES

MARK: <u>CB21</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'32.822188"	ONE SIGMA ERROR
Longitude:	121°20'37.266341"	
Northing:	404358.1189	0.011
Easting:	3284145.4138	0.010
Convergence:	-0°02'31.2233"	
Scale Factor:	1.000160287044	
Ellipsoid Height:	3416.3033	0.015
Orthometric Height:	3481.1121	0.018
Geoid Height:	-64.8088	

CONTROL MARK DATA

NAME OF MARK: CB22 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

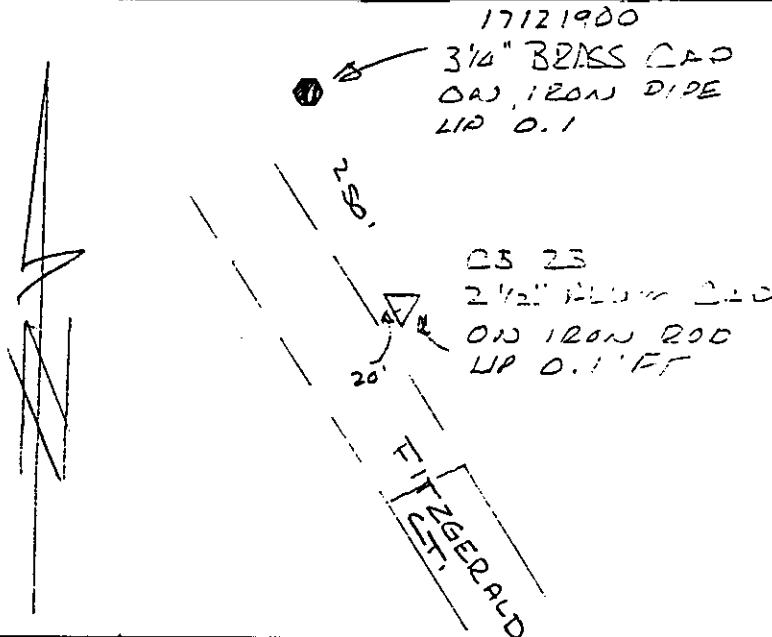
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB22</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'35.329529"	ONE SIGMA ERROR
Longitude:	121°21'48.047955"	
Northing:	404616.4653	0.011
Easting:	3278980.5107	0.010
Convergence:	-0°03'20.4918"	
Scale Factor:	1.000160504525	
Ellipsoid Height:	3468.3367	0.015
Orthometric Height:	3533.1329	0.016
Geoid Height:	-64.7962	

CONTROL MARK DATA

NAME OF MARK: CB23 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

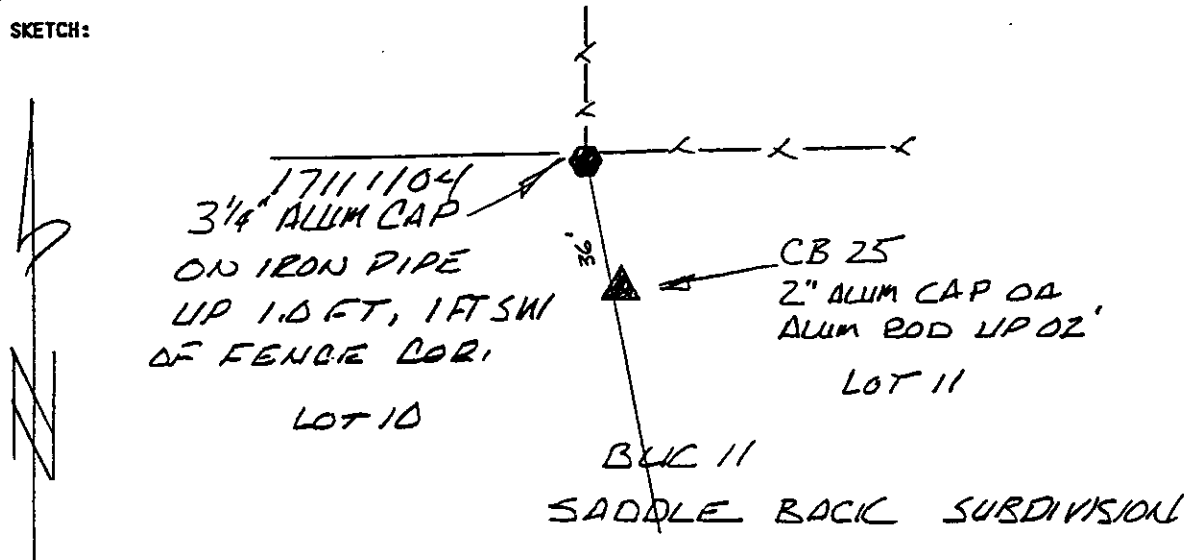
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB23</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'47.563232"	ONE
Longitude:	121°20'34.963937"	SIGMA
Northing:	393697.4318	ERROR
Easting:	3284305.6963	0.014
Convergence:	-0°02'29.5420"	0.013
Scale Factor:	1.000160281271	
Ellipsoid Height:	3858.8971	0.020
Orthometric Height:	3923.4407	0.023
Geoid Height:	-64.5437	

CONTROL MARK DATA

NAME OF MARK: CB25 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

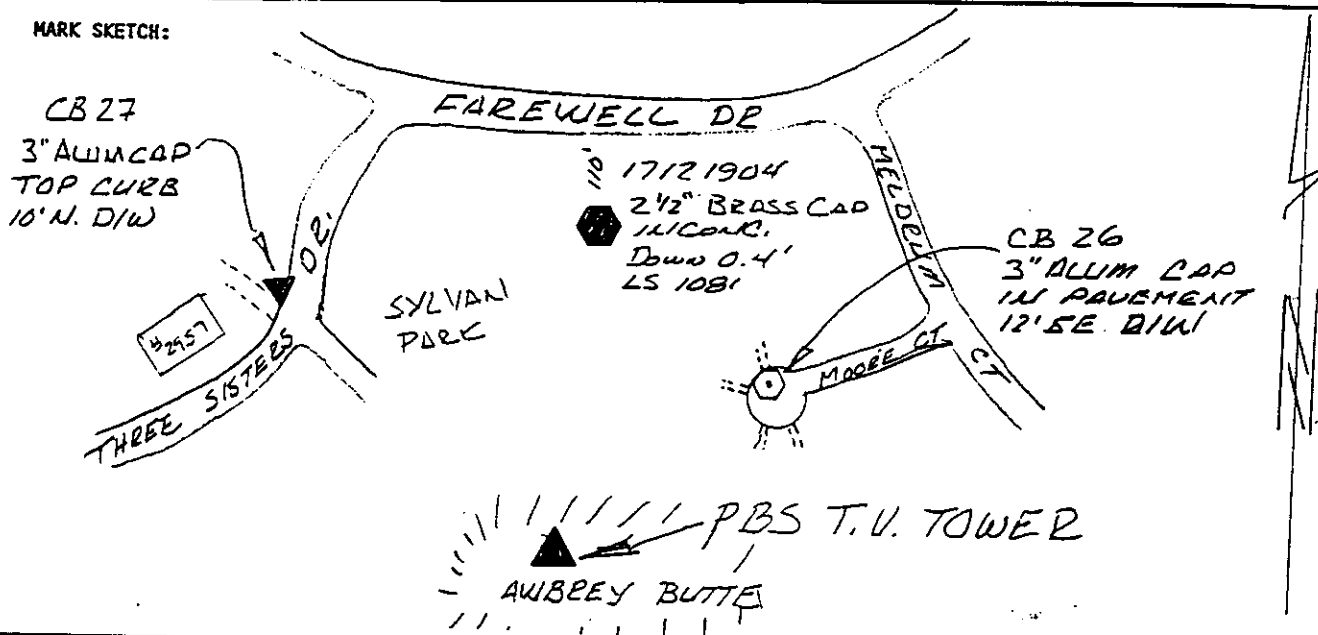
GEOIDITIC AND MAPPING COORDINATES

<u>MARK: CB25</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'33.412257"	ONE SIGMA ERROR
Longitude:	121°22'24.501913"	
Northing:	404425.0339	0.017
Easting:	3276320.173	0.017
Convergence:	-0°03'45.8629"	
Scale Factor:	1.000160640318	
Ellipsoid Height:	3512.6784	0.025
Orthometric Height:	3577.4524	0.026
Geoid Height:	-64.774	

CONTROL MARK DATA

NAME OF MARK: CB26 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

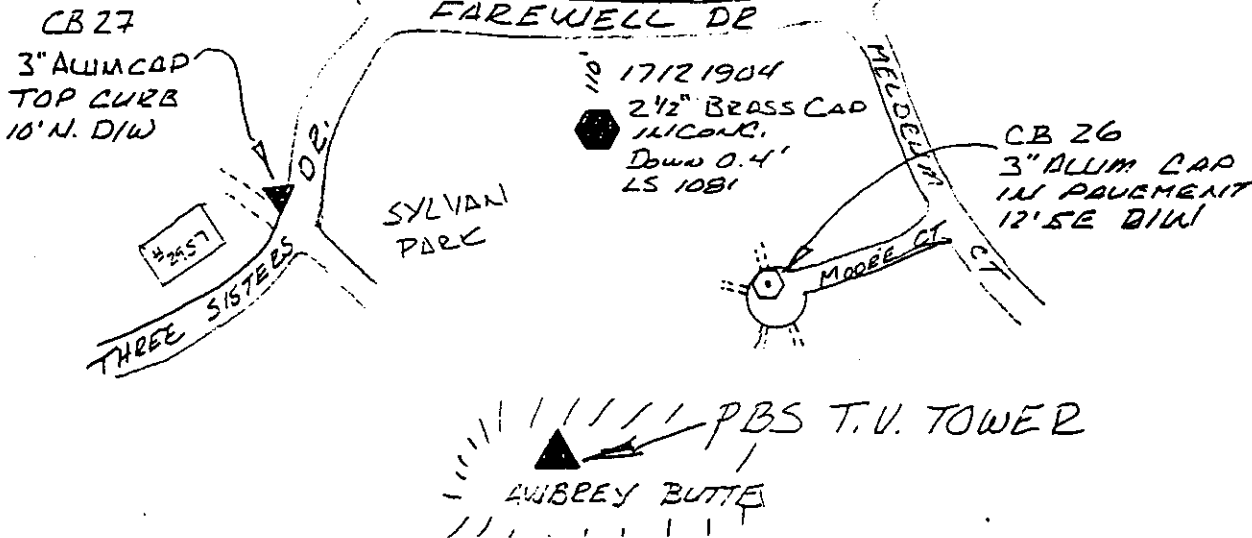
GEODITIC AND MAPPING COORDINATES

MARK: <u>CB26</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'44.796562"	ONE SIGMA ERROR
Longitude:	121°19'58.978600"	
Northing:	393415.4804	0.015
Easting:	3286932.7809	0.014
Convergence:	-0°02'04.5066"	
Scale Factor:	1.000160194988	
Ellipsoid Height:	4090.7806	0.024
Orthometric Height:	4155.3242	0.027
Geoid Height:	-64.5437	

CONTROL MARK DATA

NAME OF MARK: CB27 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

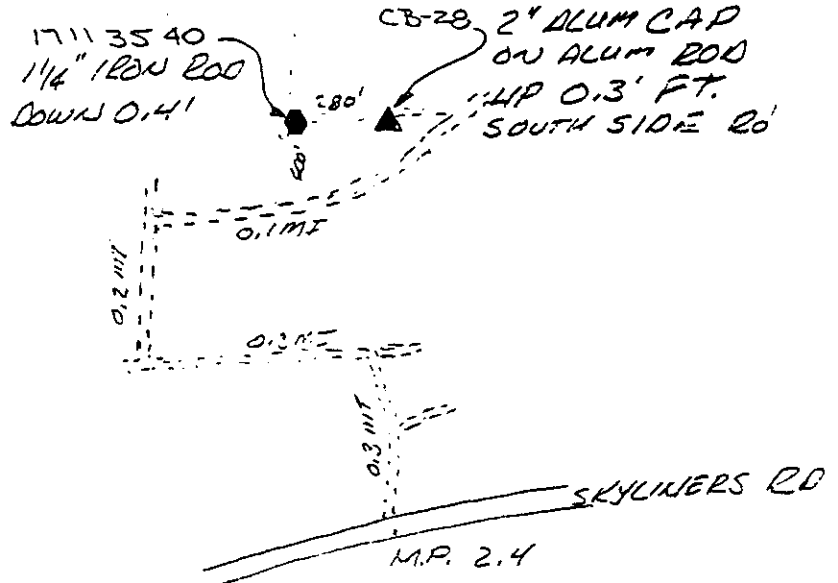
GEODITIC AND MAPPING COORDINATES

MARK: <u>CB27</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'47.789330"	ONE SIGMA ERROR
Longitude:	121°20'06.310774"	
Northing:	393718.9152	0.015
Easting:	3286397.6497	0.014
Convergence:	-0°02'09.6092"	
Scale Factor:	1.000160211285	
Ellipsoid Height:	4060.4689	0.023
Orthometric Height:	4125.0192	0.026
Geoid Height:	-64.5503	

CONTROL MARK DATA

NAME OF MARK: CB28 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

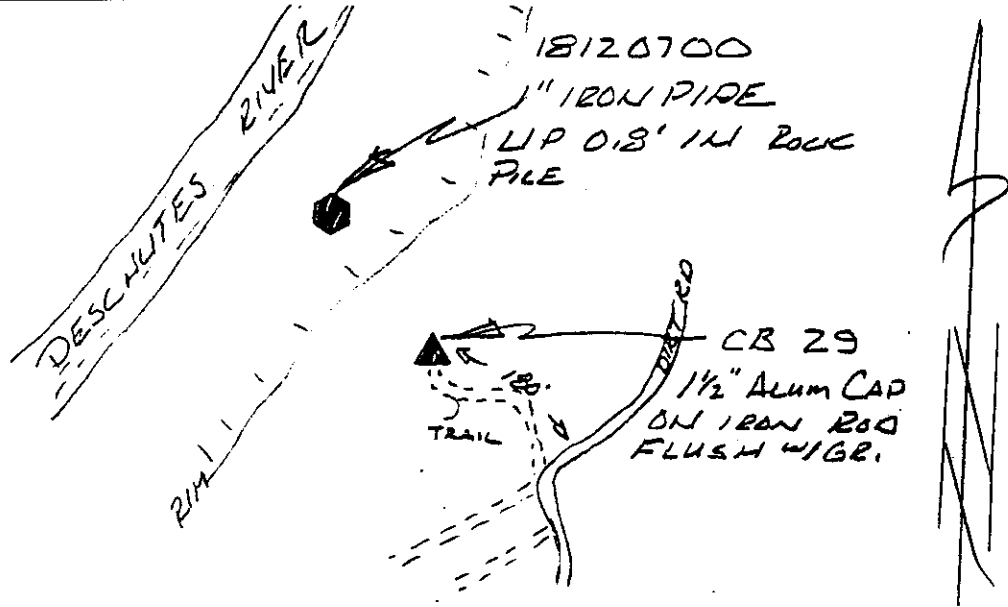
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB28</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'31.543025"	ONE SIGMA ERROR
Longitude:	121°22'57.451586"	
Northing:	386008.2258	0.018
Easting:	3273893.534	0.016
Convergence:	-0°04'08.5704"	
Scale Factor:	1.000160778287	
Ellipsoid Height:	3872.6754	0.025
Orthometric Height:	3936.9597	0.028
Geoid Height:	-64.2843	

CONTROL MARK DATA

NAME OF MARK: CB29 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

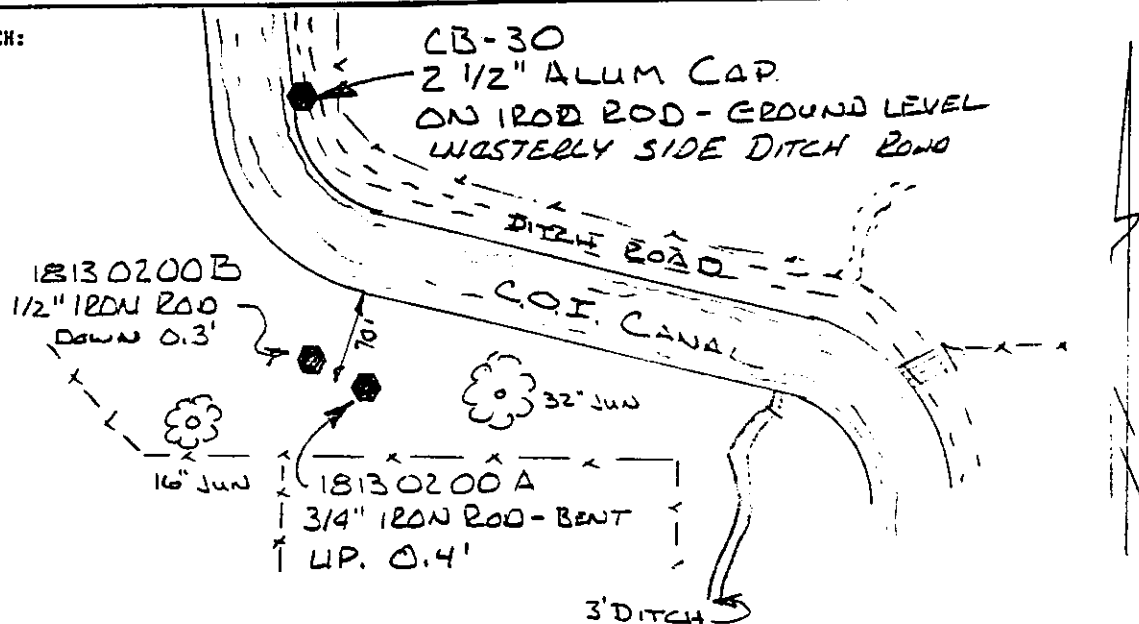
GEODETIC AND MAPPING COORDINATES

<u>MARK: CB29</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'18.816799"	ONE SIGMA ERROR
Longitude:	121°20'37.976093"	
Northing:	372556.0394	0.008
Easting:	3284070.2475	0.008
Convergence:	-0°02'31.4789"	
Scale Factor:	1.000160289778	
Ellipsoid Height:	3784.9741	0.020
Orthometric Height:	3849.0172	0.023
Geoid Height:	-64.0431	

CONTROL MARK DATA

NAME OF MARK: CB30 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

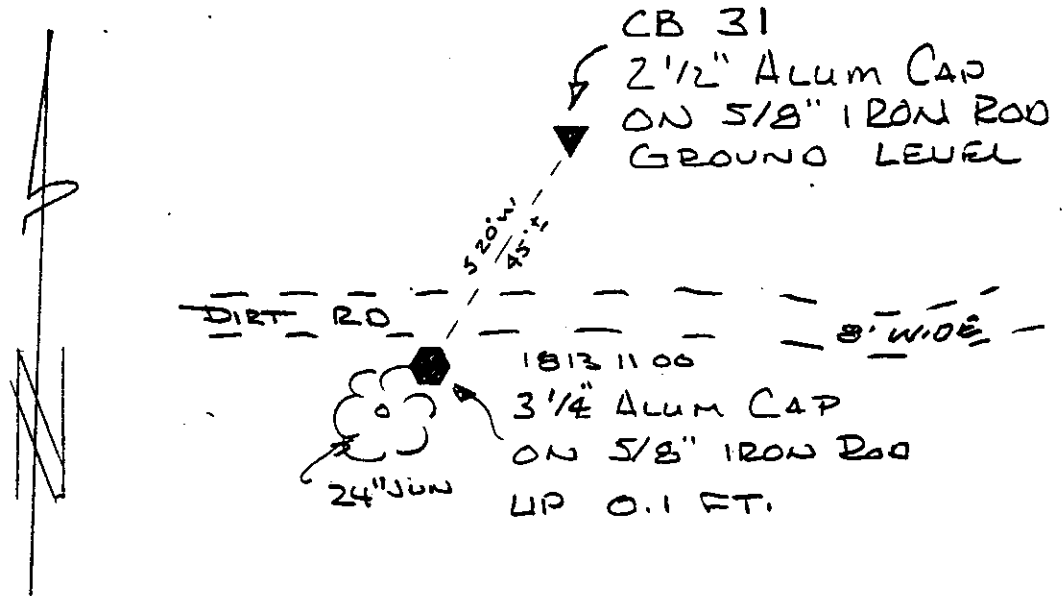
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB30</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°02'13.979831"	ONE SIGMA ERROR
Longitude:	121°08'36.226557"	
Northing:	378168.2495	0.008
Easting:	3336806.4183	0.008
Convergence:	+0°05'50.1861"	
Scale Factor:	1.000161547011	
Ellipsoid Height:	3484.2804	0.012
Orthometric Height:	3548.216	0.013
Geoid Height:	-63.9356	

CONTROL MARK DATA

NAME OF MARK: CB31 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

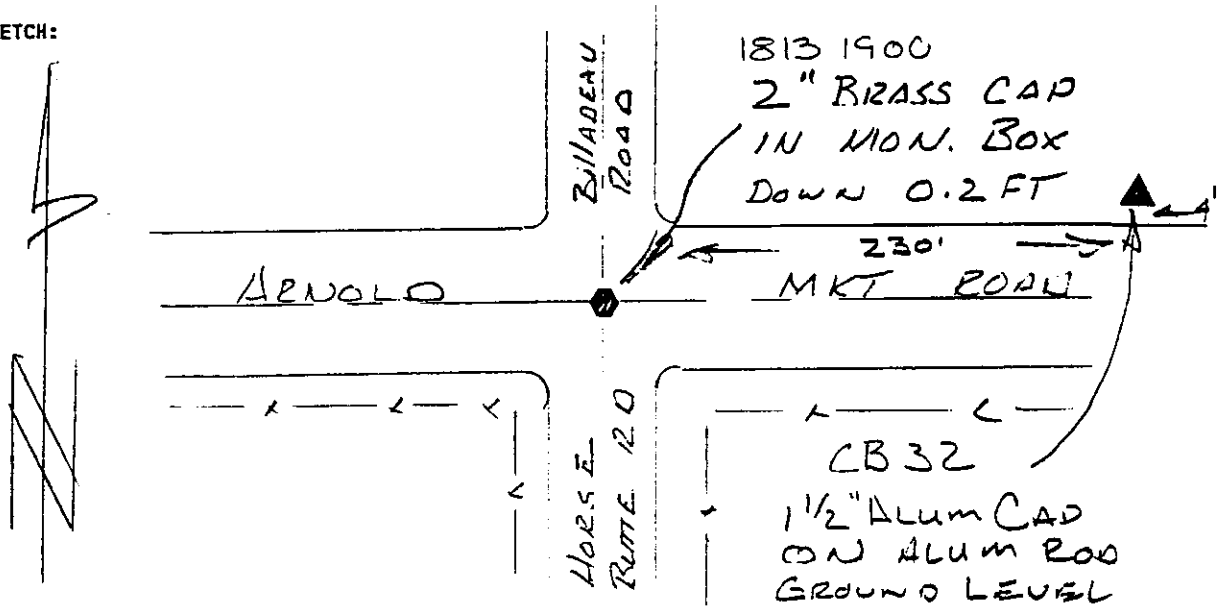
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB31</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°01'20.503025"	ONE SIGMA ERROR
Longitude:	121°08'35.651967"	
Northing:	372752.2826	0.011
Easting:	3336857.6031	0.011
Convergence:	+0°05'50.4915"	
Scale Factor:	1.000161551322	
Ellipsoid Height:	3532.6093	0.015
Orthometric Height:	3596.46	0.017
Geoid Height:	-63.8507	

CONTROL MARK DATA

NAME OF MARK: CB32 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 19 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

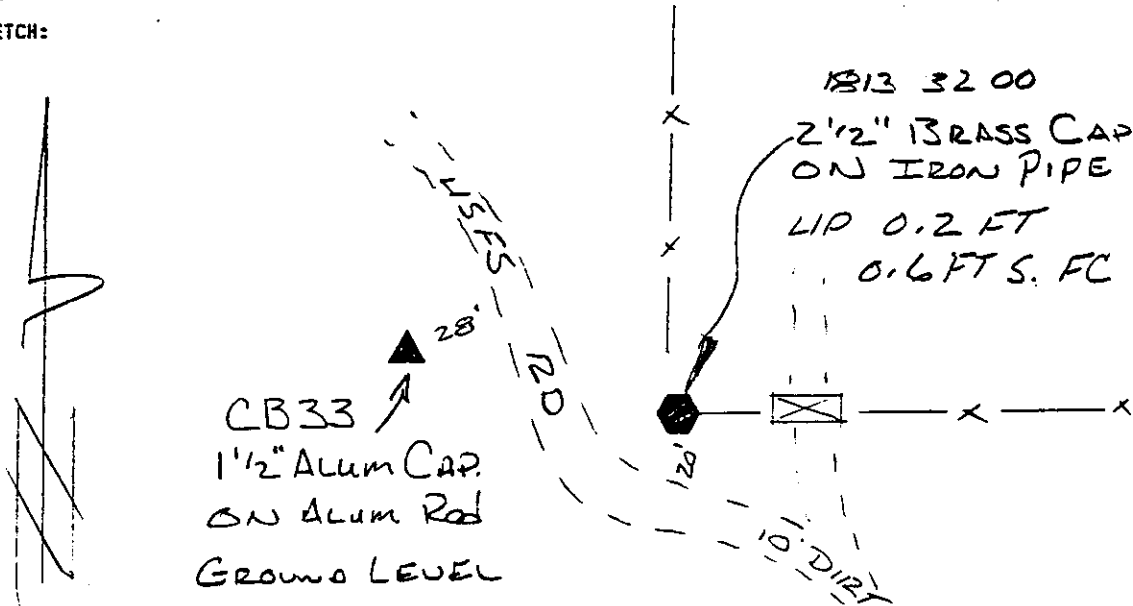
GEODITIC AND MAPPING COORDINATES

MARK: <u>CB32</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>43°59'35.577819"</u>	ONE SIGMA ERROR
Longitude:	<u>121°13'23.950643"</u>	
Northing:	<u>362100.1136</u>	<u>0.009</u>
Easting:	<u>3315796.5549</u>	<u>0.009</u>
Convergence:	<u>+0°02'30.0621"</u>	
Scale Factor:	<u>1.000160284954</u>	
Ellipsoid Height:	<u>3754.9593</u>	<u>0.013</u>
Orthometric Height:	<u>3818.6669</u>	<u>0.016</u>
Geoid Height:	<u>-63.7076</u>	

CONTROL MARK DATA

NAME OF MARK: CB33 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

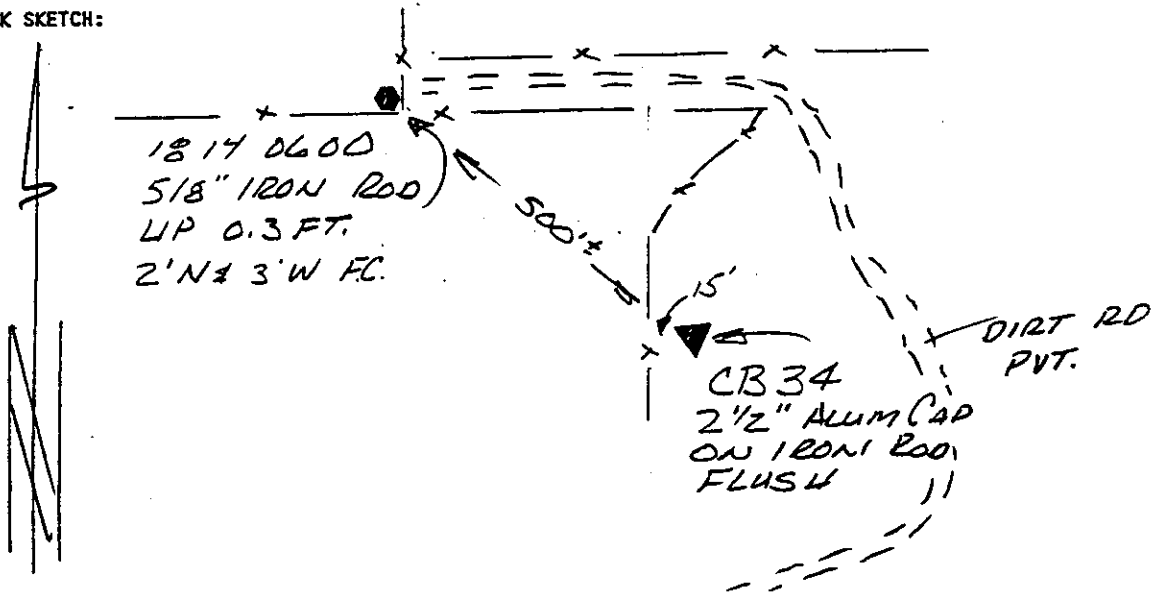
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB33</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	43°57'51.393364"	ONE
Longitude:	121°12'16.240812"	SIGMA
Northing:	351552.7543	ERROR
Easting:	3320757.2722	0.010
Convergence:	+0°03'16.9885"	0.010
Scale Factor:	1.000160492033	
Ellipsoid Height:	4057.2959	0.015
Orthometric Height:	4120.7119	0.018
Geoid Height:	-63.416	

CONTROL MARK DATA

NAME OF MARK: CB34 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 6 TOWNSHIP 18 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

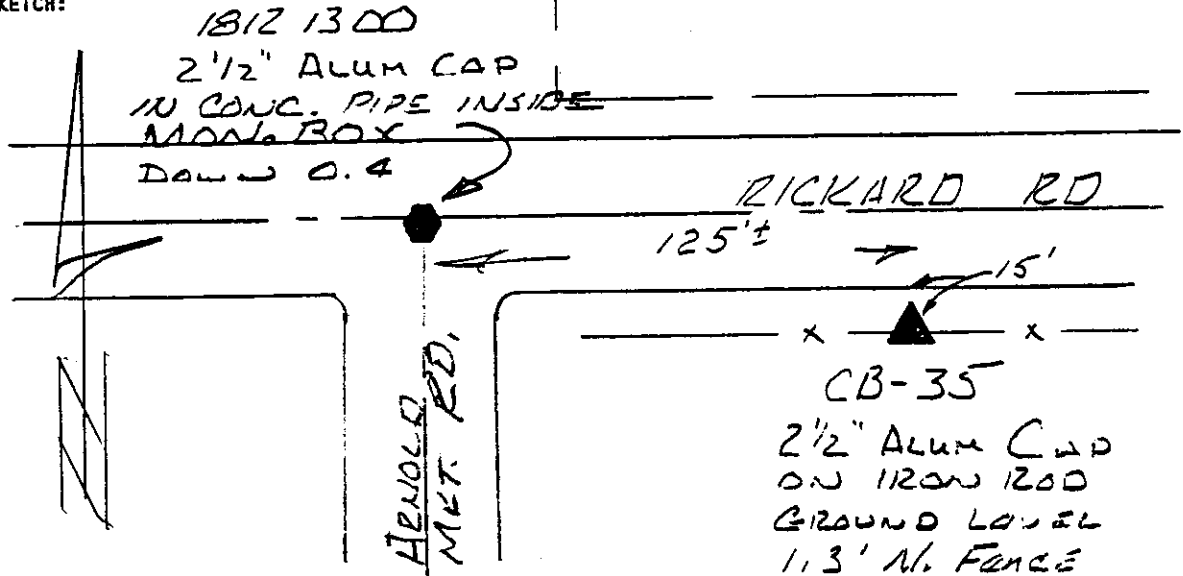
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB34</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°02'08.373990"	ONE SIGMA ERROR
Longitude:	121°06'06.654282"	
Northing:	377621.8062	0.010
Easting:	3347735.6369	0.010
Convergence:	+0°07'34.1453"	
Scale Factor:	1.000162602148	
Ellipsoid Height:	3388.6408	0.014
Orthometric Height:	3452.5097	0.017
Geoid Height:	-63.8689	

CONTROL MARK DATA

NAME OF MARK: CB35 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

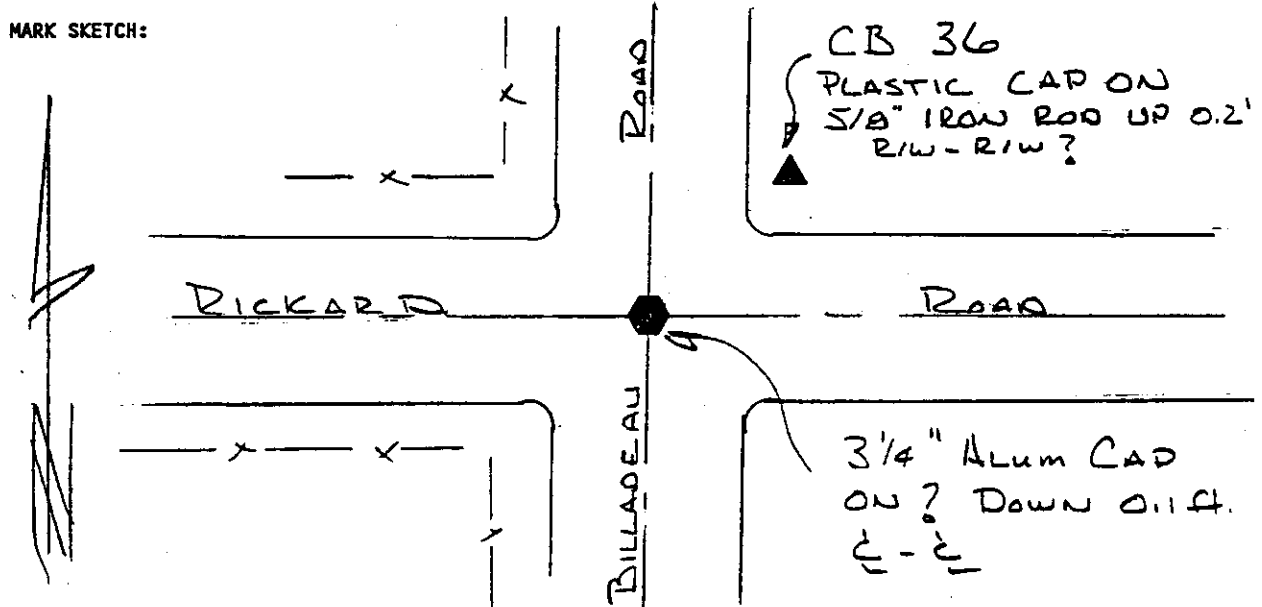
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB35</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°00'27.722432"	ONE SIGMA ERROR
Longitude:	121°14'35.692260"	
Northing:	367378.0191	0.009
Easting:	3310548.5647	0.009
Convergence:	+0°01'40.2585"	
Scale Factor:	1.000160127068	
Ellipsoid Height:	3651.2054	0.015
Orthometric Height:	3715.0691	0.017
Geoid Height:	-63.8637	

CONTROL MARK DATA

NAME OF MARK: CB36 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 18 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

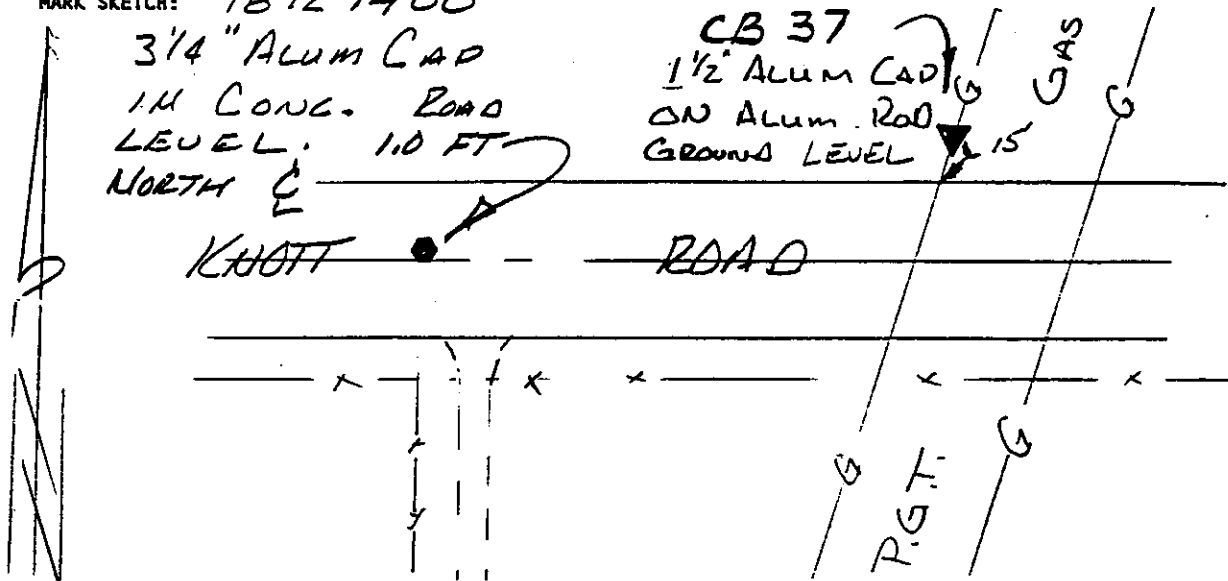
MARK: CB36 HORIZONTAL ORDER: FIRST

Latitude:	44°00'27.838984"	ONE SIGMA ERROR
Longitude:	121°13'26.135894"	
Northing:	367392.8903	0.009
Easting:	3315632.9669	0.009
Convergence:	+0°02'28.5833"	
Scale Factor:	1.000160279082	
Ellipsoid Height:	3711.0262	0.014
Orthometric Height:	3774.868	0.017
Geoid Height:	-63.8417	

CONTROL MARK DATA

NAME OF MARK: CB37 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 10

MARK SKETCH: 1812 1400



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

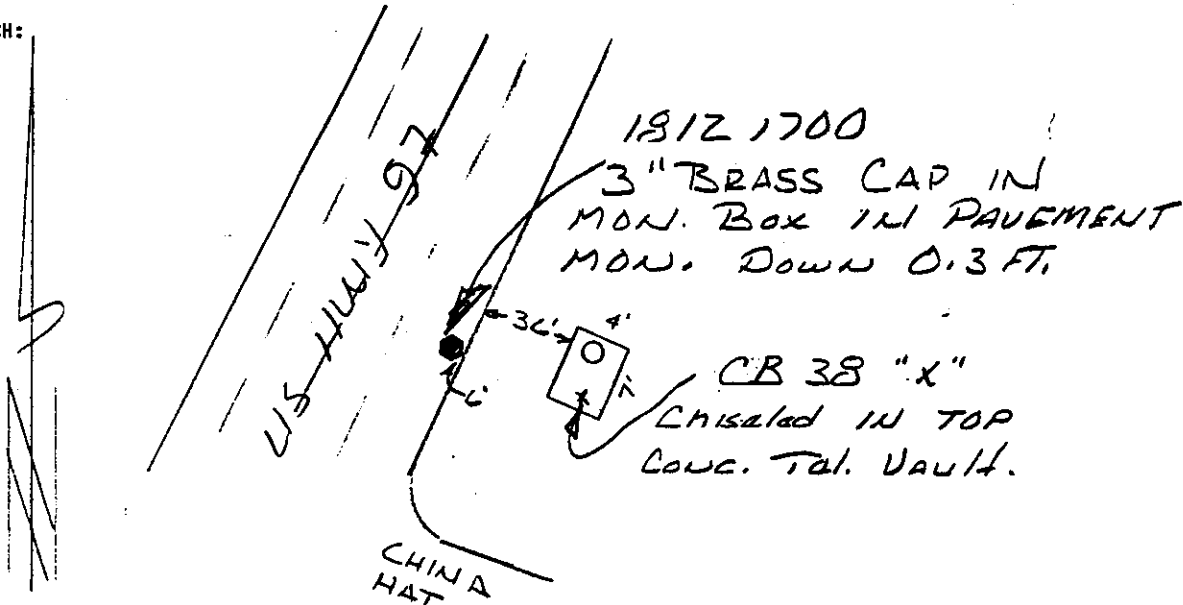
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB37</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°00'28.979326"	ONE SIGMA ERROR
Longitude:	121°15'49.321535"	
Northing:	367503.366	0.011
Easting:	3305166.4033	0.011
Convergence:	+0°00'49.1045"	
Scale Factor:	1.000160030481	
Ellipsoid Height:	3673.513	0.017
Orthometric Height:	3737.4044	0.018
Geoid Height:	-63.8914	

CONTROL MARK DATA

NAME OF MARK: CB38 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 17 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

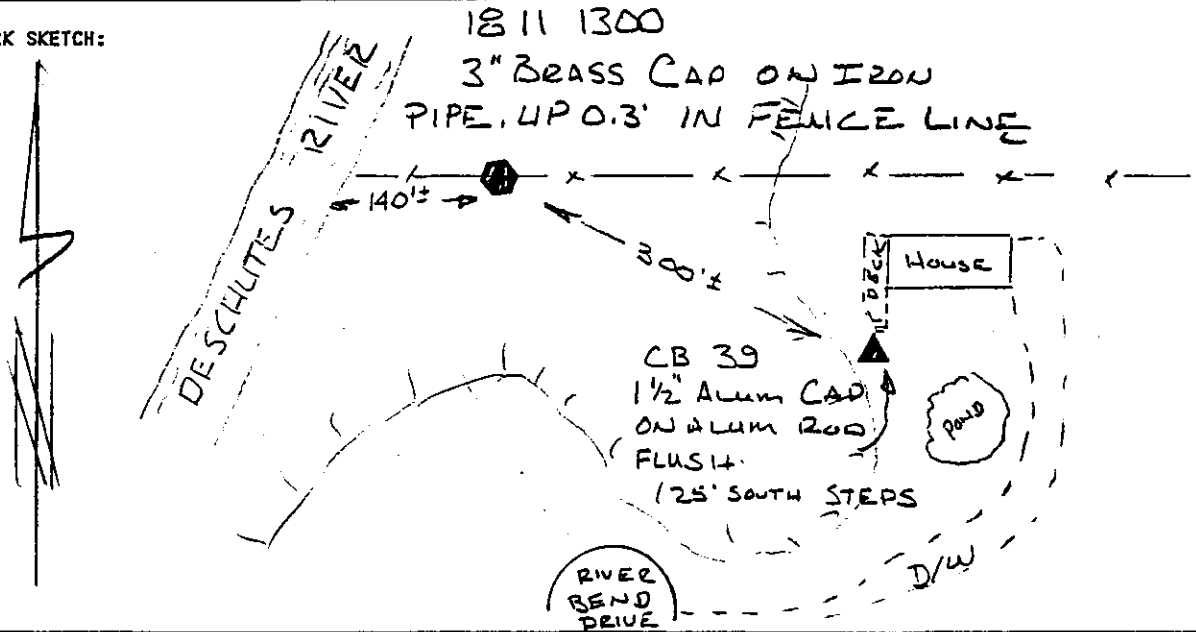
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB38</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'28.665541"	ONE SIGMA ERROR
Longitude:	121°19'24.643072"	
Northing:	367473.5472	0.006
Easting:	3289426.9699	0.006
Convergence:	-0°01'40.4920"	
Scale Factor:	1.000160127658	
Ellipsoid Height:	3783.4821	0.013
Orthometric Height:	3847.412	0.015
Geoid Height:	-63.9299	

CONTROL MARK DATA

NAME OF MARK: CB39 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

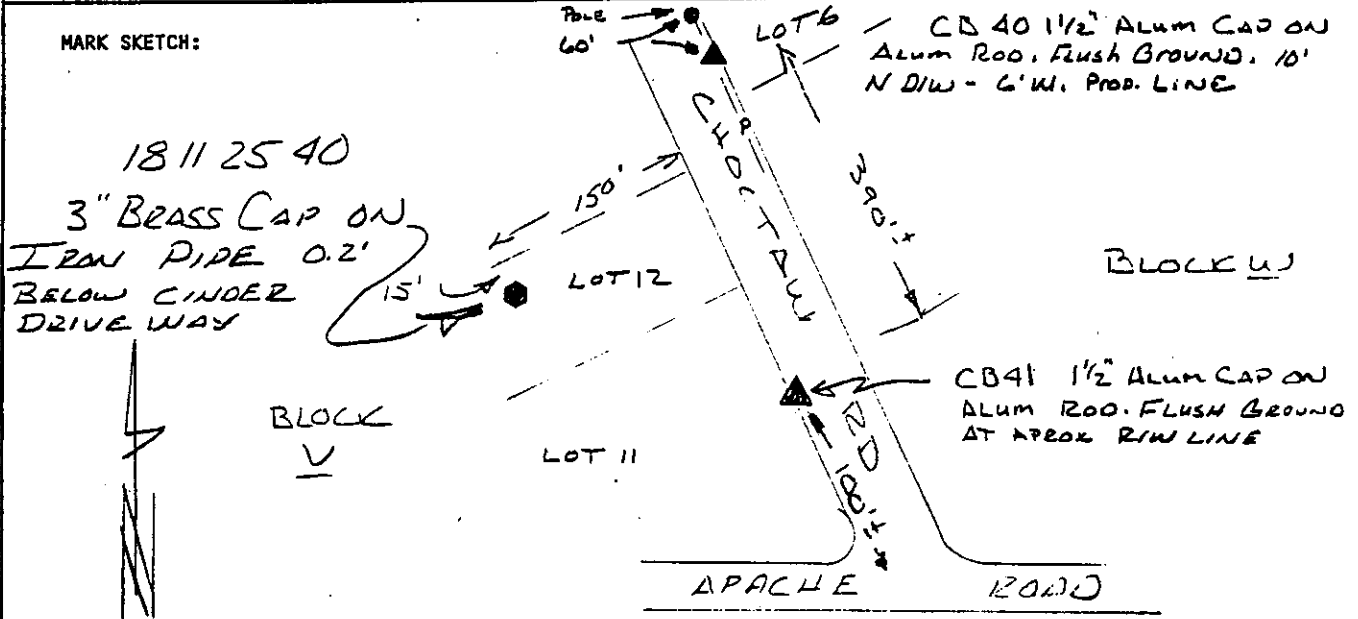
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB39</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'27.572706"	ONE SIGMA ERROR
Longitude:	121°21'47.801694"	
Northing:	367370.4884	0.010
Easting:	3278962.3417	0.009
Convergence:	-0°03'19.9516"	
Scale Factor:	1.000160505410	
Ellipsoid Height:	3819.7915	0.022
Orthometric Height:	3883.6865	0.026
Geoid Height:	-63.895	

CONTROL MARK DATA

NAME OF MARK: CB40 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETIC AND MAPPING COORDINATES

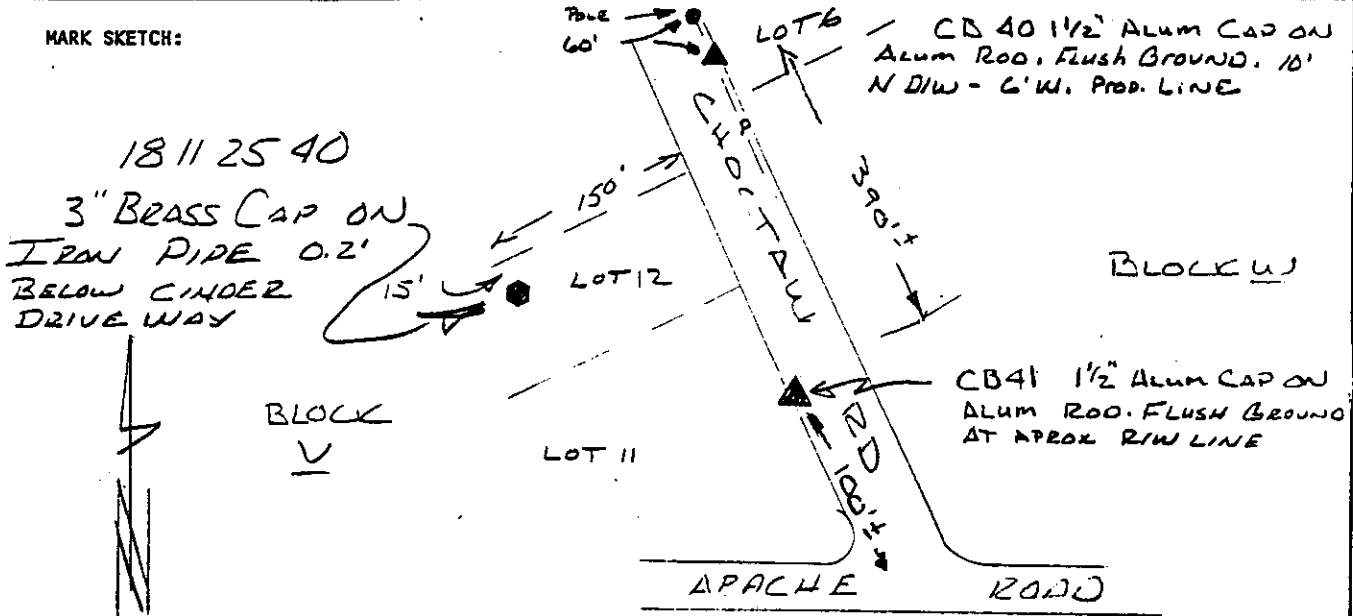
MARK: CB40 HORIZONTAL ORDER: FIRST

Latitude:	43°59'12.630765"	ONE SIGMA ERROR
Longitude:	121°21'50.455618"	
Northing:	359780.7316	0.012
Easting:	3278760.9217	0.014
Convergence:	-0°03'21.7195"	
Scale Factor:	1.000160515136	
Ellipsoid Height:	3864.83	0.029
Orthometric Height:	3928.5599	0.034
Geoid Height:	-63.7299	

CONTROL MARK DATA

NAME OF MARK: CB41 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 25 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

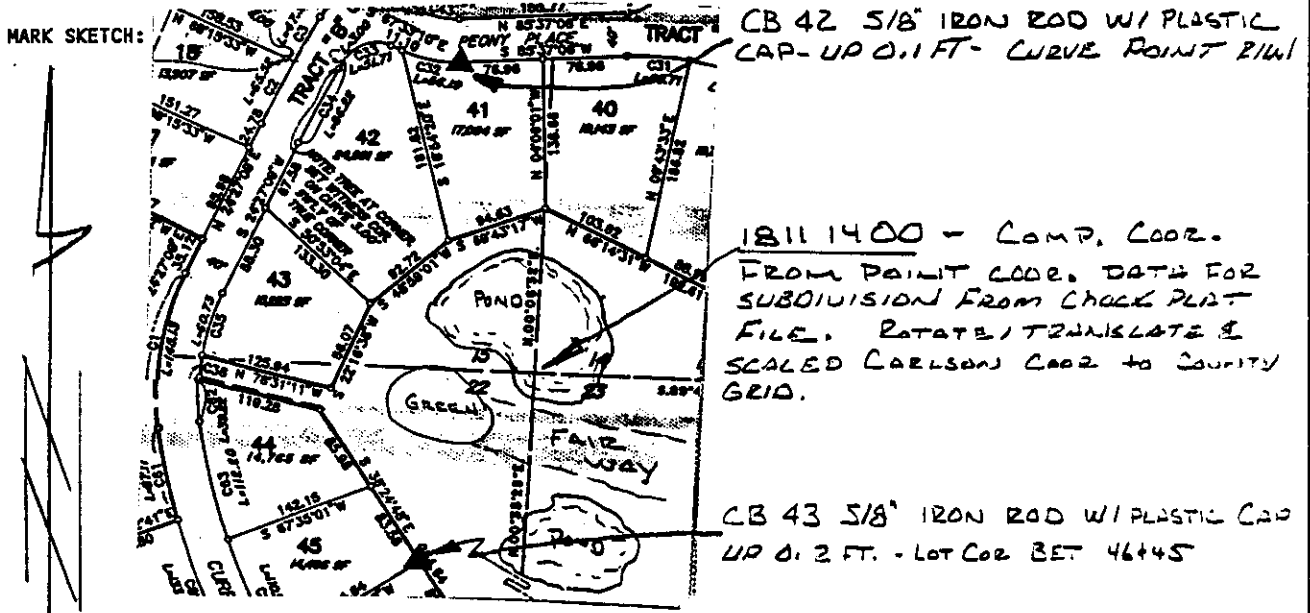
GEODETIC AND MAPPING COORDINATES

MARK: CB41 HORIZONTAL ORDER: FIRST

Latitude:	43°59'08.977761"	ONE
Longitude:	121°21'48.795621"	SIGMA
		ERROR
Northing:	359410.6462	0.014
Easting:	3278881.9464	0.016
Convergence:	-0°03'20.5630"	
Scale Factor:	1.000160509283	
Ellipsoid Height:	3872.0105	0.034
Orthometric Height:	3935.7334	0.038
Geoid Height:	-63.7229	

CONTROL MARK DATA

NAME OF MARK: CB42 COUNTY: DESCHUTES
 MARK SET BY: LS 2044 JOHN CARLSON STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 15 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 9717



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

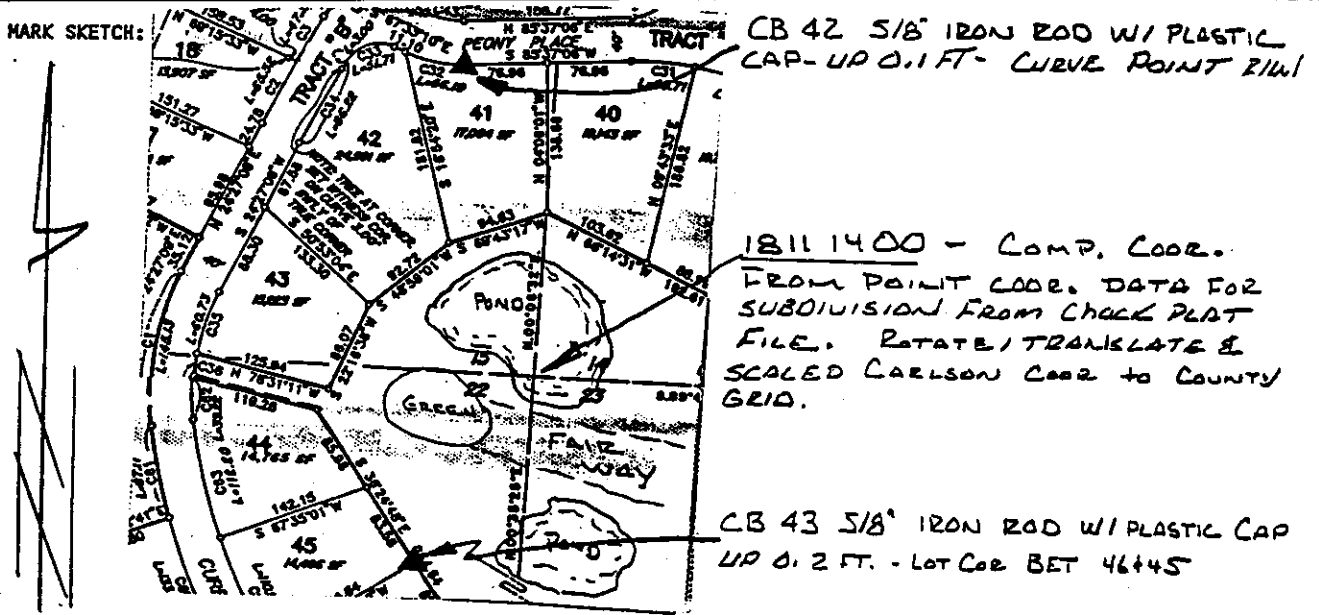
GEODETTIC AND MAPPING COORDINATES

MARK: <u>CB42</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'31.277731"	ONE SIGMA ERROR
Longitude:	121°23'04.612573"	
Northing:	367751.8947	0.013
Easting:	3273348.0994	0.011
Convergence:	-0°04'13.3211"	
Scale Factor:	1.000160811158	
Ellipsoid Height:	3868.024	0.027
Orthometric Height:	3931.865	0.032
Geoid Height:	-63.841	

CONTROL MARK DATA

NAME OF MARK: CB43 COUNTY: DESCHUTES
 MARK SET BY: LS 2044 JOHN CARLSON STATE: OREGON
 DATE OF MARK: 1990 COUNTRY: U.S.A.
 LOCATION: SECTION 22 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 9717

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

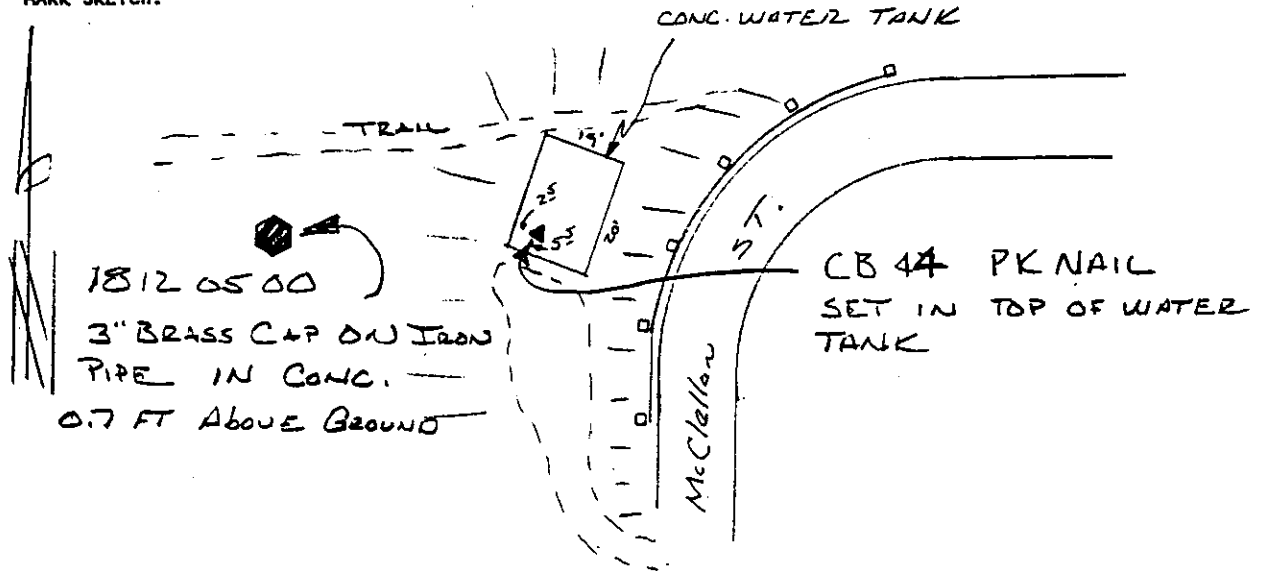
GEODETTIC AND MAPPING COORDINATES

MARK: <u>CB43</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'26.726387"	ONE SIGMA ERROR
Longitude:	121°23'04.772540"	
Northing:	367290.9586	0.012
Easting:	3273335.84	0.010
Convergence:	-0°04'13.4264"	
Scale Factor:	1.000160811904	
Ellipsoid Height:	3863.6038	0.025
Orthometric Height:	3927.4349	0.030
Geoid Height:	-63.8311	

CONTROL MARK DATA

NAME OF MARK: CB44 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

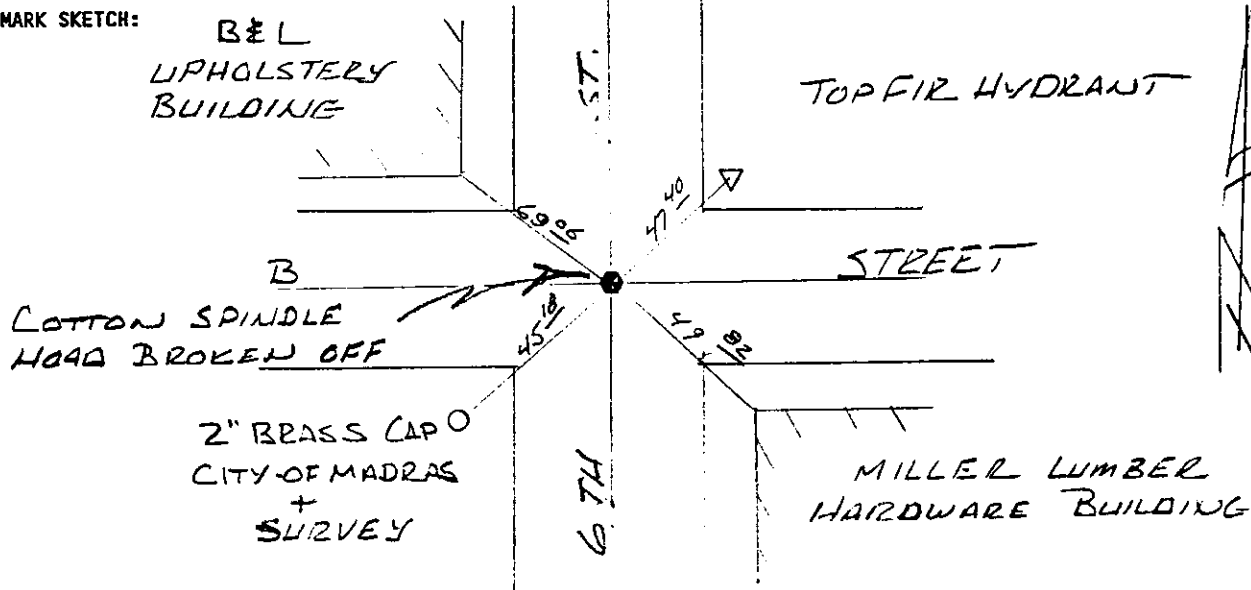
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>CB44</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°02'13.033464"	ONE SIGMA ERROR
Longitude:	121°19'23.360251"	
Northing:	378043.6891	0.008
Easting:	3289525.8462	0.008
Convergence:	-0°01'39.6529"	
Scale Factor:	1.000160125281	
Ellipsoid Height:	3626.15	0.020
Orthometric Height:	3690.3227	0.022
Geoid Height:	-64.1726	

CONTROL MARK DATA

NAME OF MARK: COTTON 1 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 14

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

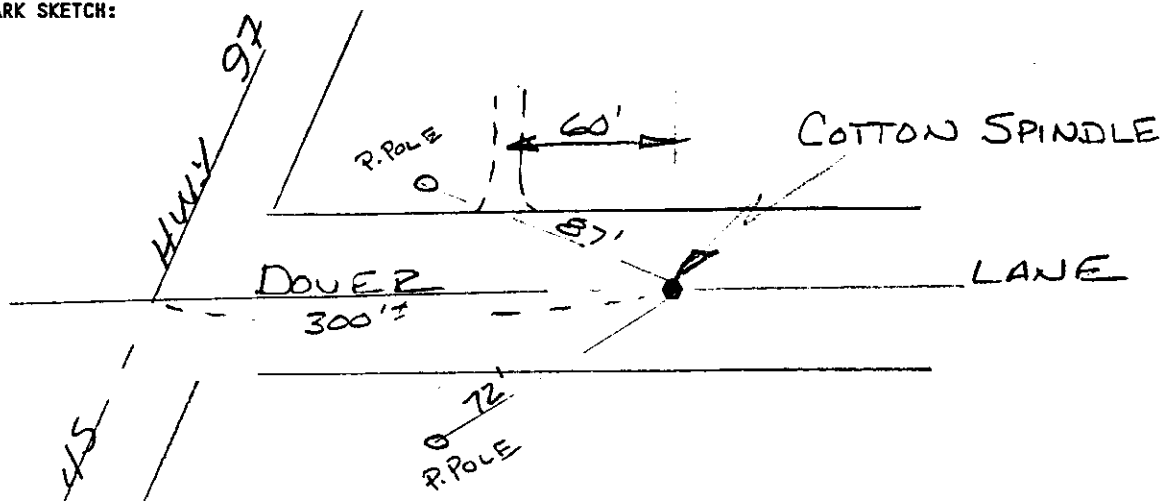
GEODETIC AND MAPPING COORDINATES

MARK: <u>COTTON 1</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°38'09.416789"	ONE SIGMA ERROR
Longitude:	121°07'42.683555"	
Northing:	596485.9257	0.019
Easting:	3340306.1096	0.018
Convergence:	+ 0°06'31.5708"	
Scale Factor:	1.000161854928	
Ellipsoid Height:	2175.0841	0.016
Orthometric Height:	2241.1942	FIXED
Geoid Height:	-66.1101	

CONTROL MARK DATA

NAME OF MARK: COTTON 2 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 14

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

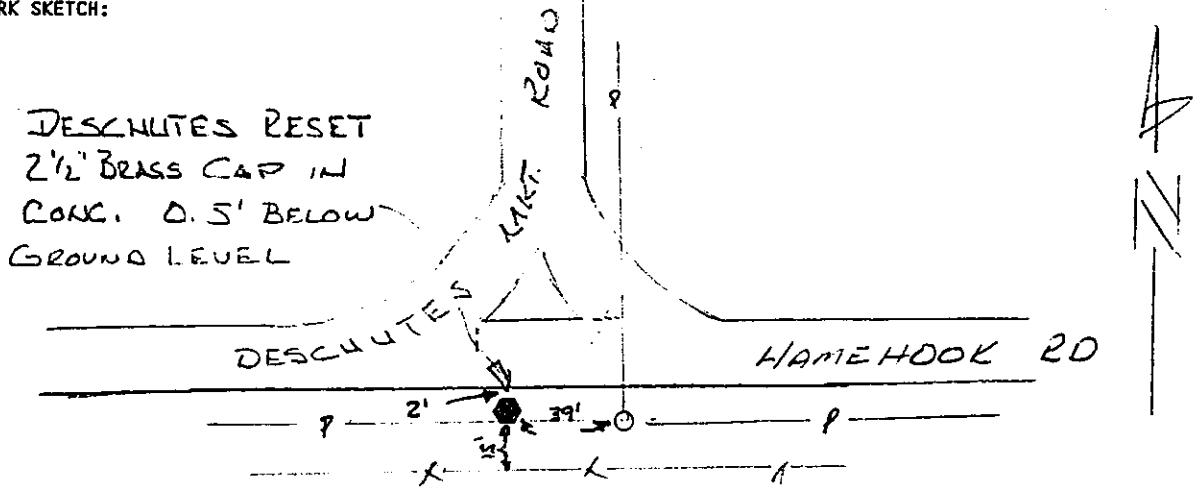
GEODETTIC AND MAPPING COORDINATES

<u>MARK:</u> <u>COTTON 2</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°35'33.177825"	ONE SIGMA ERROR
Longitude:	121°08'47.723884"	
Northing:	580652.2812	0.023
Easting:	3335628.8042	0.022
Convergence:	+ 0°05'45.6079"	
Scale Factor:	1.000161449413	
Ellipsoid Height:	2414.0808	0.032
Orthometric Height:	2479.9738	0.054
Geoid Height:	-65.8929	

CONTROL MARK DATA

NAME OF MARK: DESCHUTES RESET COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

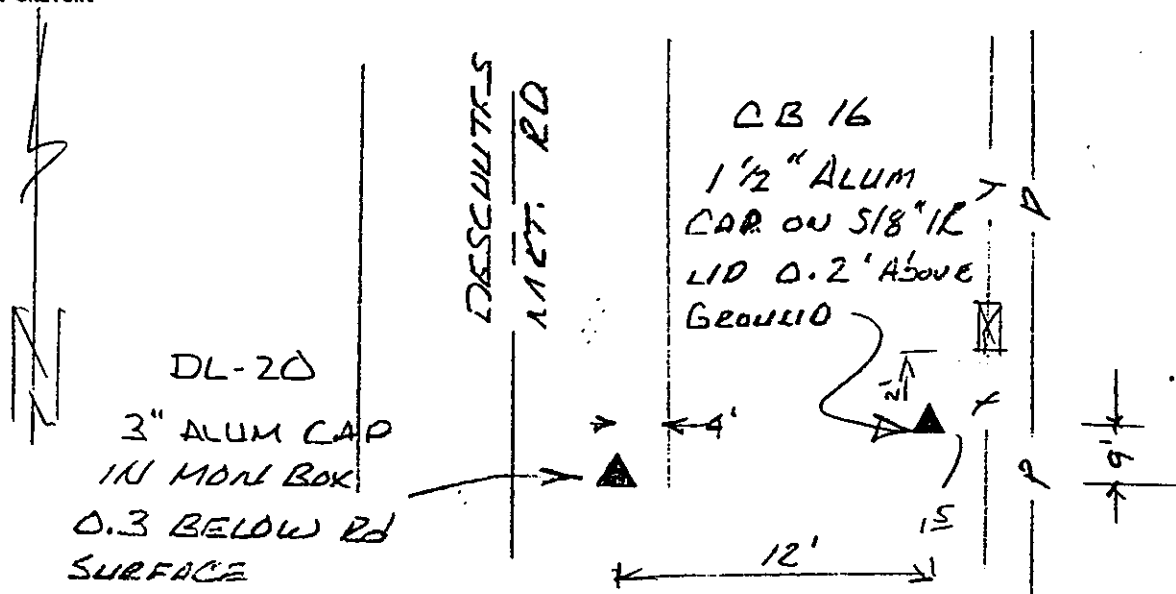
GEODITIC AND MAPPING COORDINATES

<u>MARK: DESCHUTES RESET</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'20.465077"	ONE SIGMA ERROR
Longitude:	121°15'13.411193"	
Northing:	403102.1821	0.010
Easting:	3307778.5598	0.010
Convergence:	+0°01'14.1841"	
Scale Factor:	1.000160069093	
Ellipsoid Height:	3348.9792	0.018
Orthometric Height:	3413.6269	0.031
Geoid Height:	-64.6477	

CONTROL MARK DATA

NAME OF MARK: DL20 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

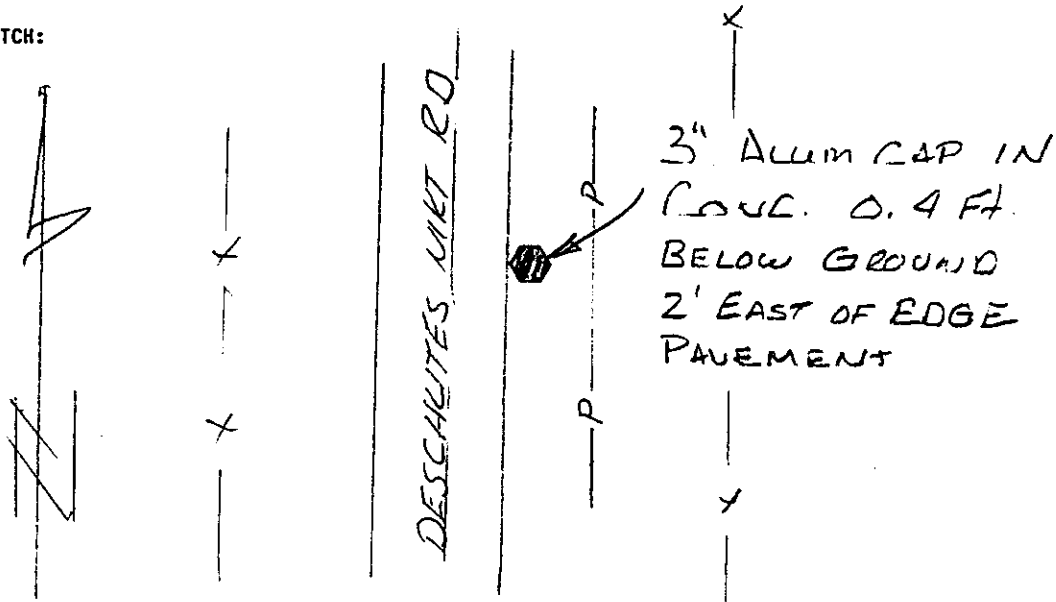
MARK: DL20 HORIZONTAL ORDER: SECOND

Latitude:	44°07'05.282651"	ONE SIGMA ERROR
Longitude:	121°15'12.951909"	
Northing:	407641.3054	0.028
Easting:	3307810.4373	0.037
Convergence:	+0°01'14.5205"	
Scale Factor:	1.000160069661	
Ellipsoid Height:	3311.2664	0.042
Orthometric Height:	3376.0056	0.042
Geoid Height:	-64.7393	

CONTROL MARK DATA

NAME OF MARK: DL80 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

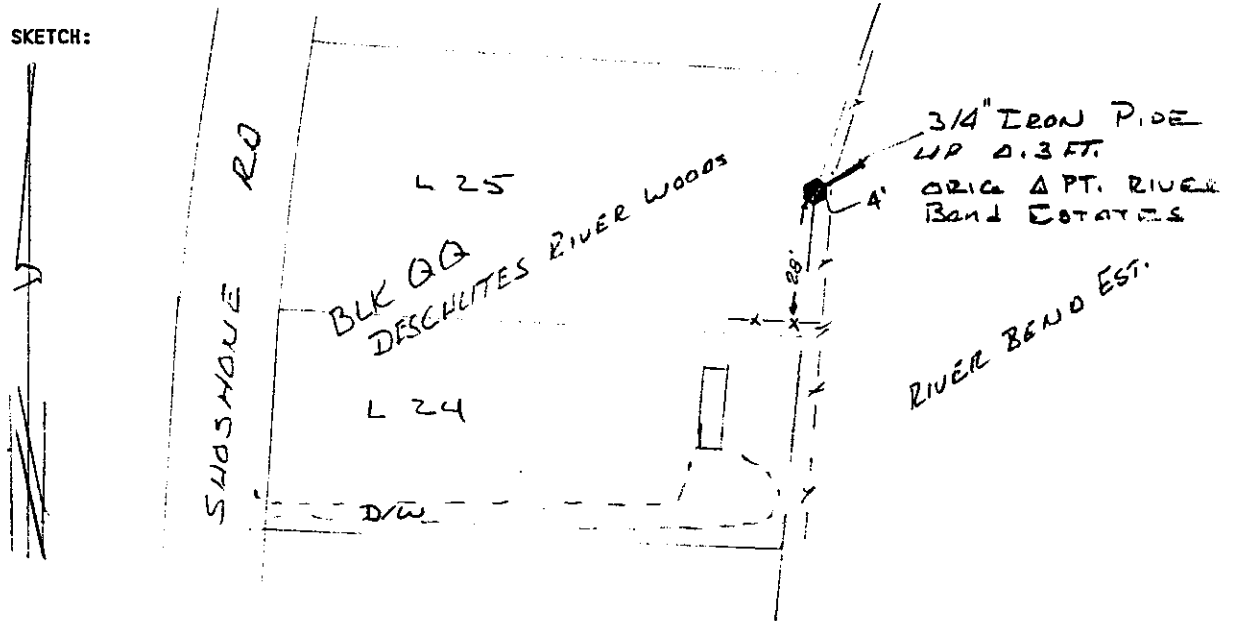
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>DL80</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°08'27.787442"	ONE SIGMA ERROR
Longitude:	121°15'12.476059"	
Northing:	415997.4056	0.010
Easting:	3307842.1233	0.008
Convergence:	+0°01'14.8826"	
Scale Factor:	1.000160070227	
Ellipsoid Height:	3254.7803	0.018
Orthometric Height:	3319.6948	0.032
Geoid Height:	-64.9145	

CONTROL MARK DATA

NAME OF MARK: DRW1 COUNTY: DESCHUTES
 MARK SET BY: PE 2222 ARTHUR SHERMAN STATE: OREGON
 DATE OF MARK: 1963 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 9305

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

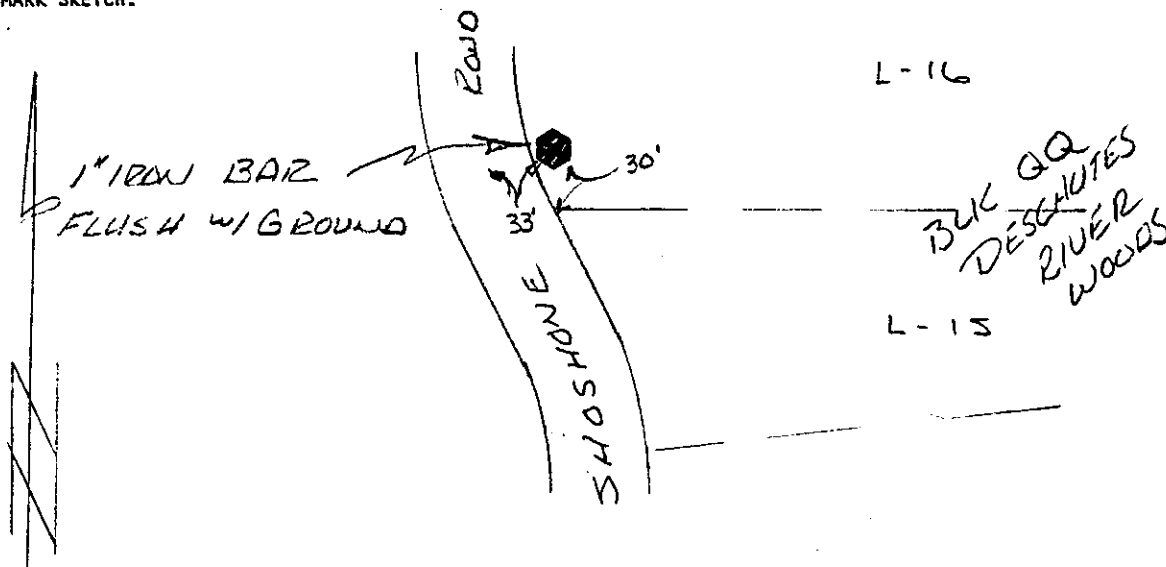
GEODETTIC AND MAPPING COORDINATES

MARK: <u>DRW1</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'48.768092"	ONE SIGMA ERROR
Longitude:	121°21'46.122402"	
Northing:	363440.3251	0.014
Easting:	3279081.307	0.014
Convergence:	-0°03'18.7462"	
Scale Factor:	1.000160499711	
Ellipsoid Height:	3835.0789	0.030
Orthometric Height:	3898.8905	0.034
Geoid Height:	-63.8116	

CONTROL MARK DATA

NAME OF MARK: DRW2 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 11

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

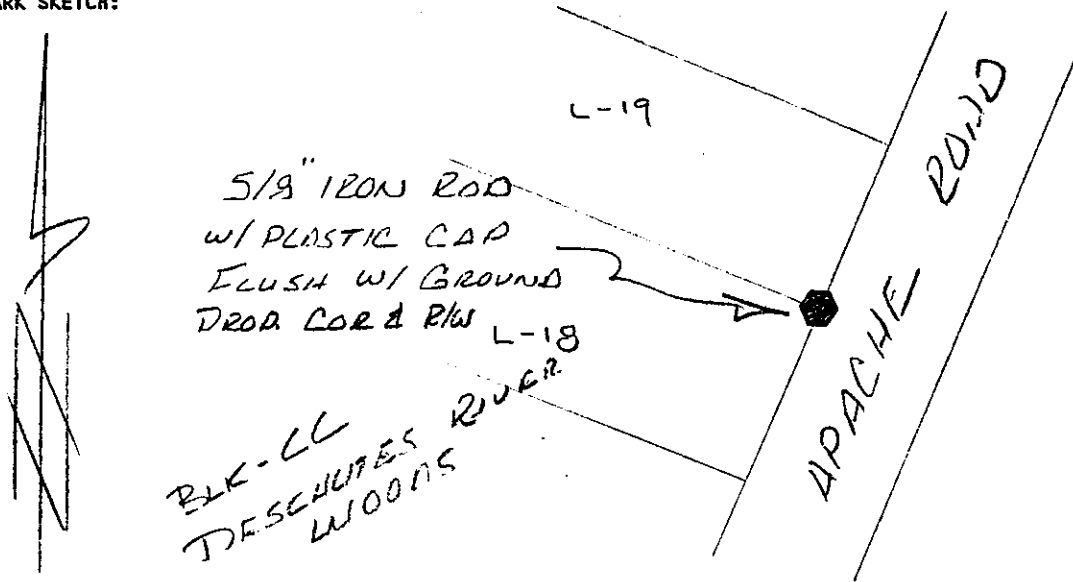
GEODETTIC AND MAPPING COORDINATES

MARK: <u>DRW2</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'40.002878"	ONE SIGMA ERROR
Longitude:	121°21'51.987808"	
Northing:	362553.0223	0.011
Easting:	3278651.6085	0.011
Convergence:	-0°03'22.8115"	
Scale Factor:	1.000160520452	
Ellipsoid Height:	3838.3147	0.024
Orthometric Height:	3902.1034	0.029
Geoid Height:	-63.7887	

CONTROL MARK DATA

NAME OF MARK: DRW3 COUNTY: DESCHUTES
MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
DATE OF MARK: 1993 COUNTRY: U.S.A.
LOCATION: SECTION 1 TOWNSHIP 18 S. RANGE 11 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: CS 11430

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

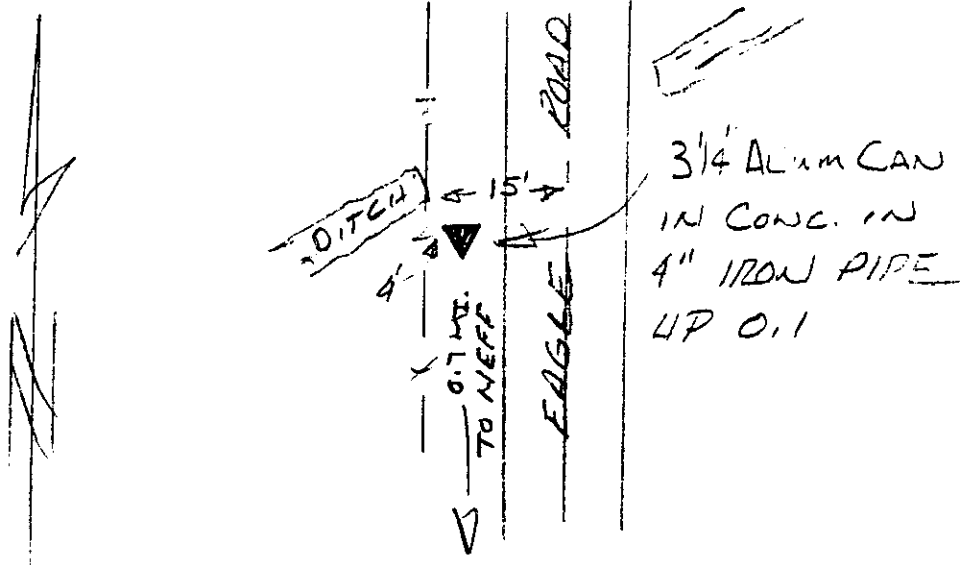
GEODETIC AND MAPPING COORDINATES

MARK: <u>DRW3</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'36.518877"	ONE SIGMA ERROR
Longitude:	121°20'33.276183"	
Northing:	362195.2751	0.008
Easting:	3284406.2755	0.008
Convergence:	-0°02'28.1366"	
Scale Factor:	1.000160277683	
Ellipsoid Height:	3867.3087	0.019
Orthometric Height:	3931.1282	0.022
Geoid Height:	-63.8195	

CONTROL MARK DATA

NAME OF MARK: E010 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1980 COUNTRY: U.S.A.
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

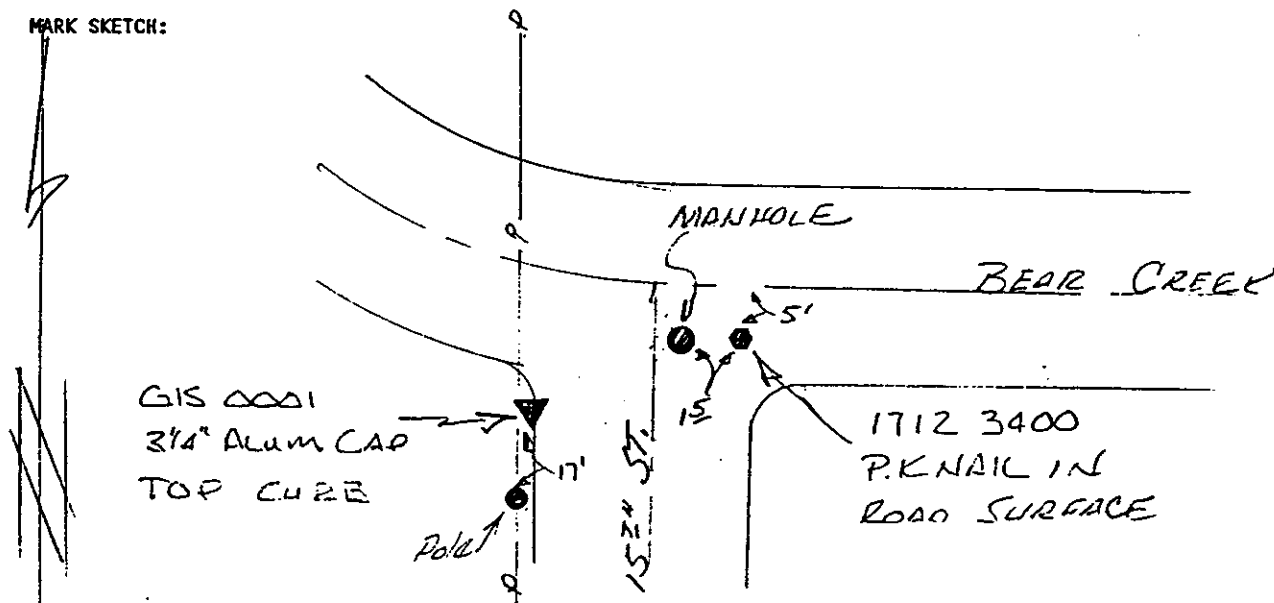
GEODITIC AND MAPPING COORDINATES

MARK: <u>E010</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'30.528934"</u>	ONE SIGMA ERROR
Longitude:	<u>121°15'13.542454"</u>	
Northing:	<u>391967.9194</u>	<u>0.008</u>
Easting:	<u>3307772.9791</u>	<u>0.008</u>
Convergence:	<u>+0°01'14.0520"</u>	
Scale Factor:	<u>1.000160068995</u>	
Ellipsoid Height:	<u>3485.5945</u>	<u>0.015</u>
Orthometric Height:	<u>3550.0074</u>	<u>0.029</u>
Geoid Height:	<u>-64.413</u>	

CONTROL MARK DATA

NAME OF MARK: GIS 01 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 4 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

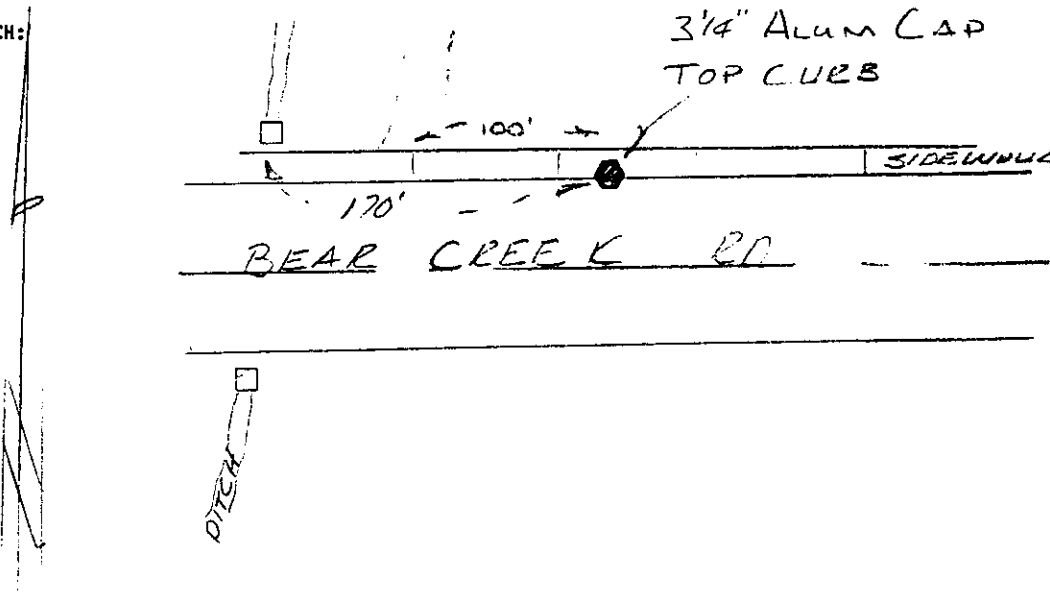
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>GIS 01</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.549162"	ONE SIGMA ERROR
Longitude:	121°17'01.952450"	
Northing:	383258.5924	0.014
Easting:	3299857.3849	0.013
Convergence:	-0°00'01.3575"	
Scale Factor:	1.000160000023	
Ellipsoid Height:	3594.124	0.027
Orthometric Height:	3658.4084	0.037
Geoid Height:	-64.2844	

CONTROL MARK DATA

NAME OF MARK: GIS 02 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

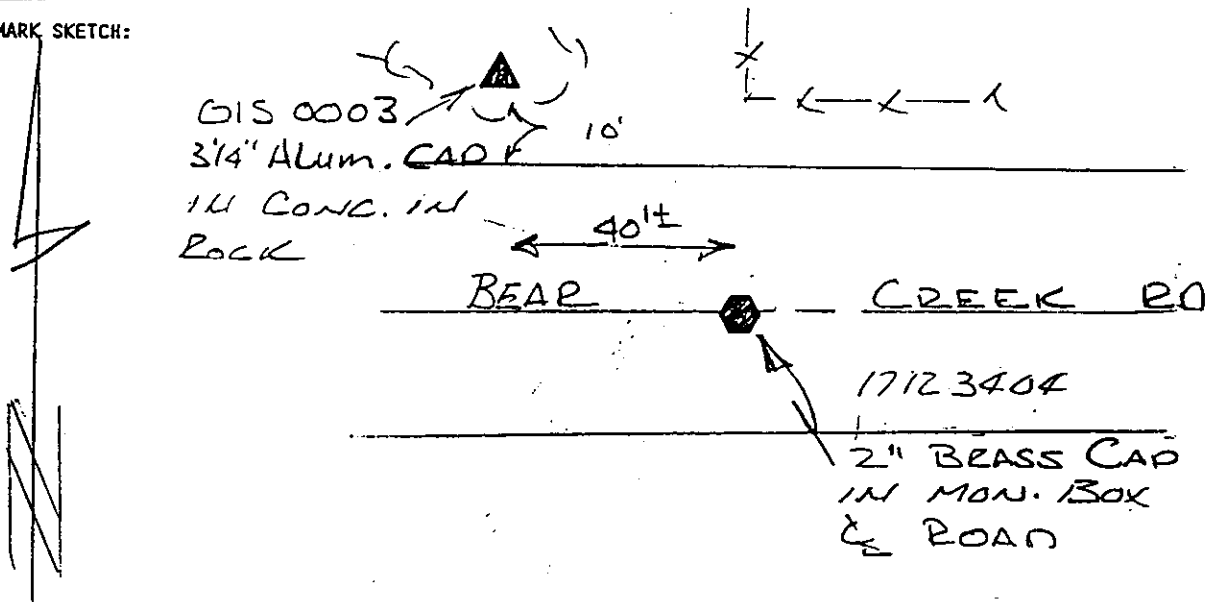
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 02</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.811210"	ONE SIGMA ERROR
Longitude:	121°16'48.104740"	
Northing:	383285.1492	FIXED
Easting:	3300868.8785	FIXED
Convergence:	+0°00'08.2708"	
Scale Factor:	1.000160000862	
Ellipsoid Height:	3605.8675	0.000
Orthometric Height:	3670.1378	FIXED
Geoid Height:	-64.2703	

CONTROL MARK DATA

NAME OF MARK: GIS 03 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

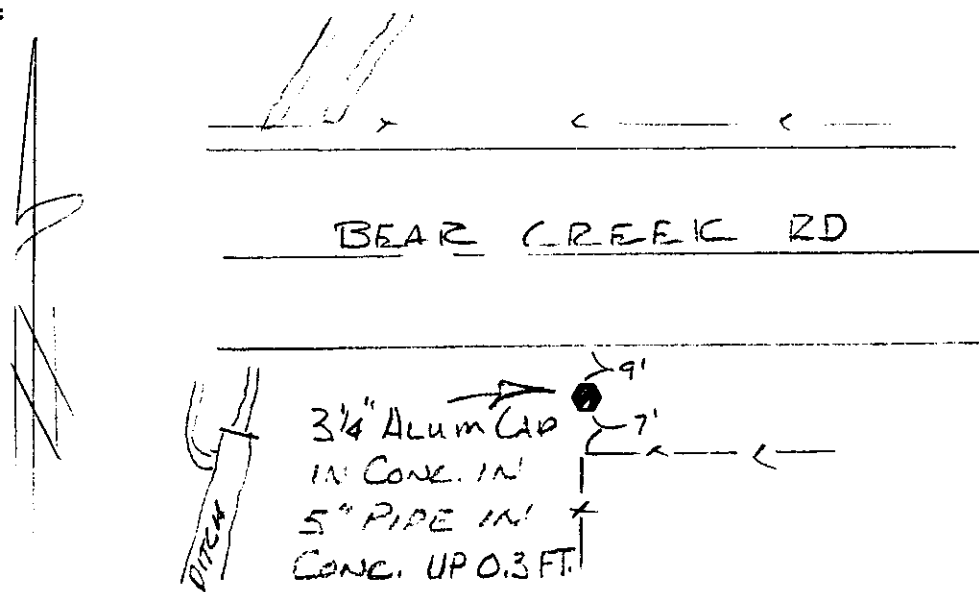
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>GIS 03</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°03'05.056638"	ONE SIGMA ERROR
Longitude:	121°16'25.762402"	
Northing:	383310.1327	0.011
Easting:	3302500.8515	0.010
Convergence:	+0°00'23.8055"	
Scale Factor:	1.000160007142	
Ellipsoid Height:	3606.416	0.020
Orthometric Height:	3670.6752	0.033
Geoid Height:	-64.2591	

CONTROL MARK DATA

NAME OF MARK: GIS 04 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

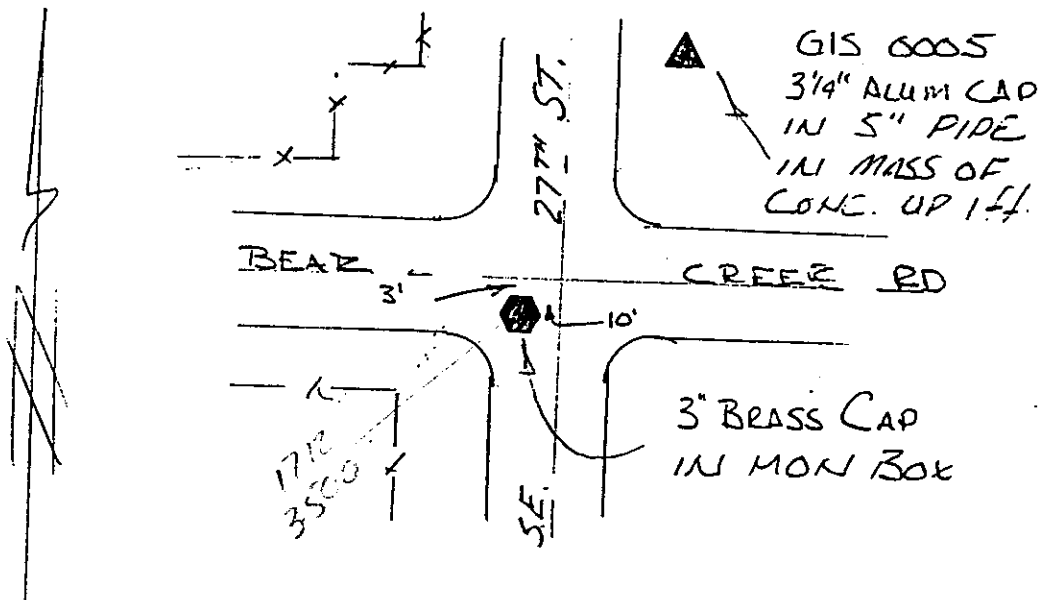
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 04</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.687120"	ONE SIGMA ERROR
Longitude:	121°16'04.632040"	
Northing:	383272.9415	FIXED
Easting:	3304044.3049	FIXED
Convergence:	+0°00'38.4975"	
Scale Factor:	1.000160018678	
Ellipsoid Height:	3597.587	0.000
Orthometric Height:	3661.8373	FIXED
Geoid Height:	-64.2503	

CONTROL MARK DATA

NAME OF MARK: GIS 05 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 05</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.906408"	ONE SIGMA ERROR
Longitude:	121°15'48.292458"	
Northing:	383396.685	0.010
Easting:	3305237.7858	0.009
Convergence:	+0°00'49.8587"	
Scale Factor:	1.000160031329	
Ellipsoid Height:	3587.4858	0.017
Orthometric Height:	3651.7295	0.031
Geoid Height:	-64.2436	

CONTROL MARK DATA

NAME OF MARK: GIS 06 COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 7

MARK SKETCH:

DESTROYED

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

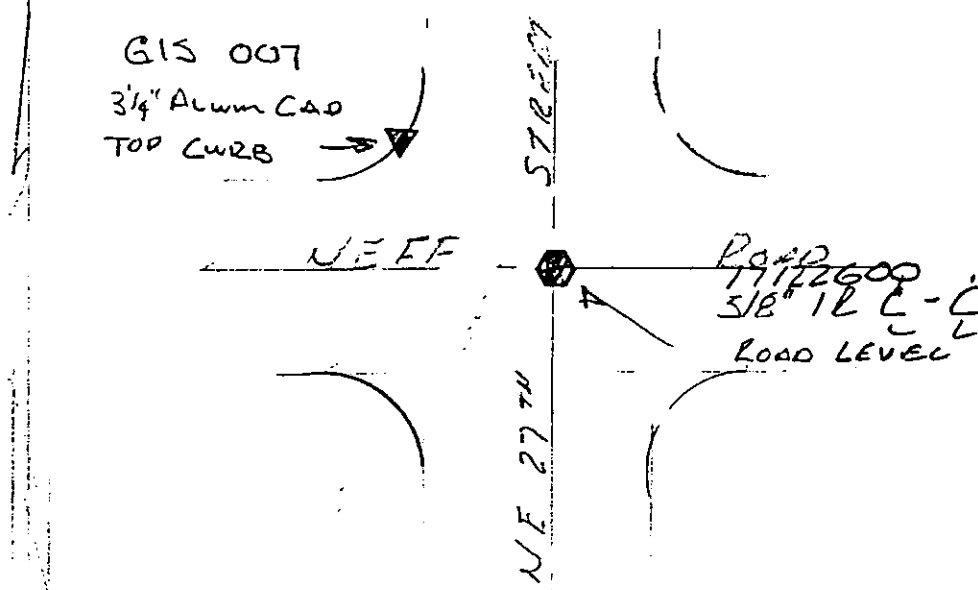
GEODITIC AND MAPPING COORDINATES

MARK:	<u>GIS 06</u>	HORIZONTAL ORDER:	<u>FIRST</u>	
Latitude:	<u>44°03'31.198875"</u>			ONE SIGMA ERROR
Longitude:	<u>121°15'50.033300"</u>			
Northing:	<u>385958.2429</u>			0.009
Easting:	<u>3305110.024</u>			0.008
Convergence:	<u>+0°00'48.6545"</u>			
Scale Factor:	<u>1.000160029819</u>			
Ellipsoid Height:	<u>3545.1889</u>			0.017
Orthometric Height:	<u>3609.4926</u>			0.031
Geoid Height:	<u>-64.3037</u>			

CONTROL MARK DATA

NAME OF MARK: GIS 07 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

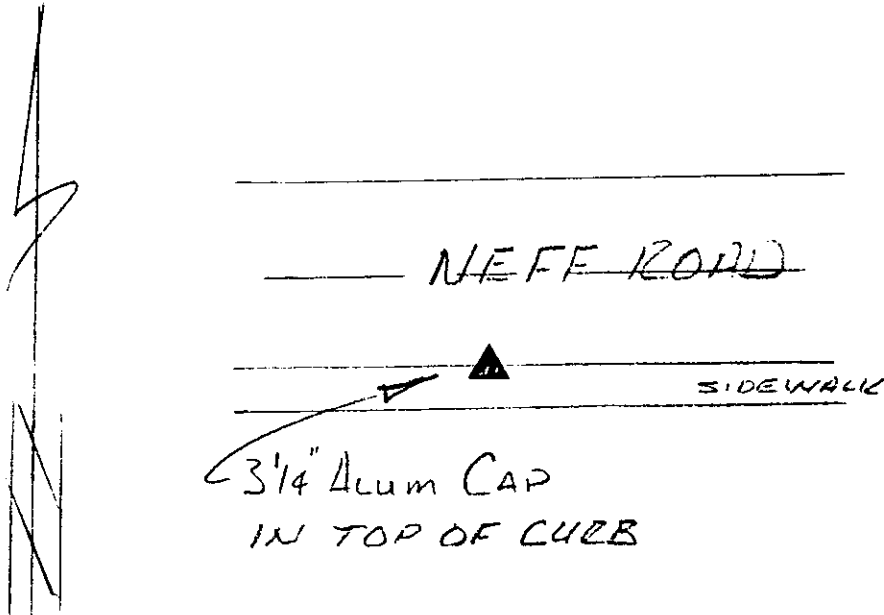
MARK: GIS 07 HORIZONTAL ORDER: SECOND

Latitude:	44°03'57.047310"	ONE SIGMA ERROR
Longitude:	121°15'49.885040"	FIXED
Northing:	388576.1448	FIXED
Easting:	3305120.2333	FIXED
Convergence:	+0°00'48.7639"	
Scale Factor:	1.000160029938	
Ellipsoid Height:	3518.3301	0.000
Orthometric Height:	3582.6903	FIXED
Geoid Height:	-64.3602	

CONTROL MARK DATA

NAME OF MARK: GIS 08 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

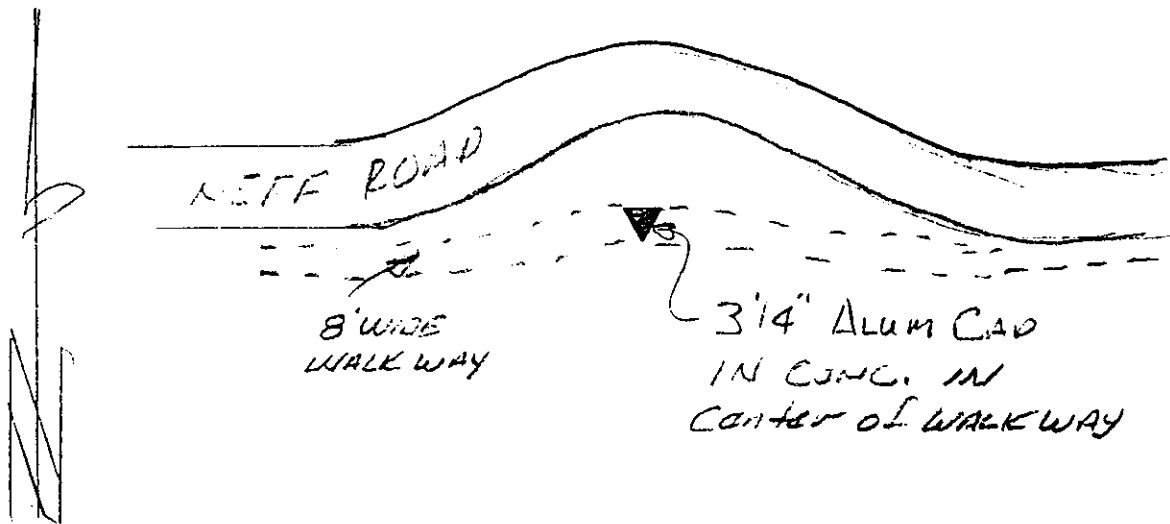
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 08</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.400950"	ONE SIGMA ERROR
Longitude:	121°16'30.199590"	
Northing:	388510.1862	FIXED
Easting:	3302176.2191	FIXED
Convergence:	+0°00'20.7257"	
Scale Factor:	1.000160005408	
Ellipsoid Height:	3543.7825	0.000
Orthometric Height:	3608.1627	FIXED
Geoid Height:	-64.3803	

CONTROL MARK DATA

NAME OF MARK: GIS 10 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

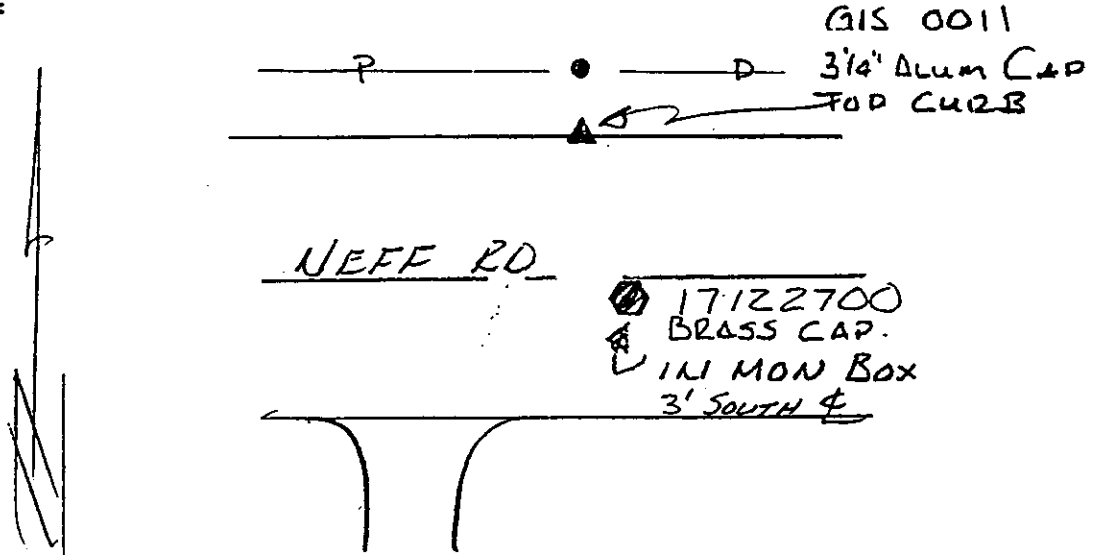
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 010</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.469580"	ONE SIGMA ERROR
Longitude:	121°16'53.087650"	
Northing:	388517.0335	FIXED
Easting:	3300504.7844	FIXED
Convergence:	+0°00'04.8074"	
Scale Factor:	1.000160000291	
Ellipsoid Height:	3619.1743	0.000
Orthometric Height:	3683.5696	FIXED
Geoid Height:	-64.3953	

CONTROL MARK DATA

NAME OF MARK: GIS 11 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

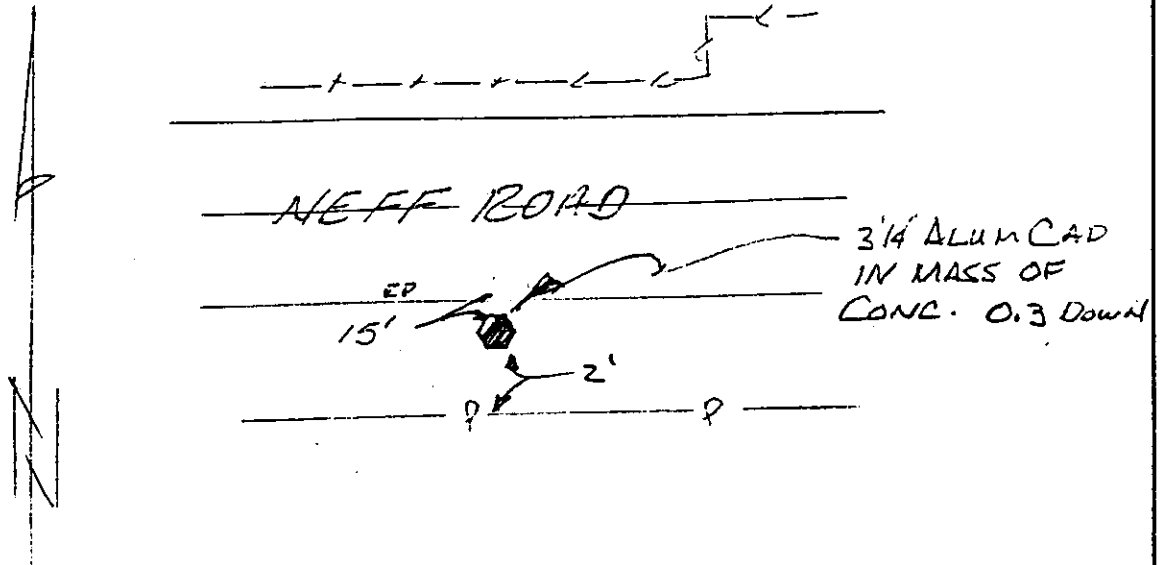
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 11</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'56.606541"	ONE SIGMA ERROR
Longitude:	121°17'01.526807"	
Northing:	388530.8992	0.011
Easting:	3299888.5028	0.009
Convergence:	-0°00'01.0619"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3610.7118	0.018
Orthometric Height:	3675.1158	0.031
Geoid Height:	-64.404	

CONTROL MARK DATA

NAME OF MARK: GIS 12 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

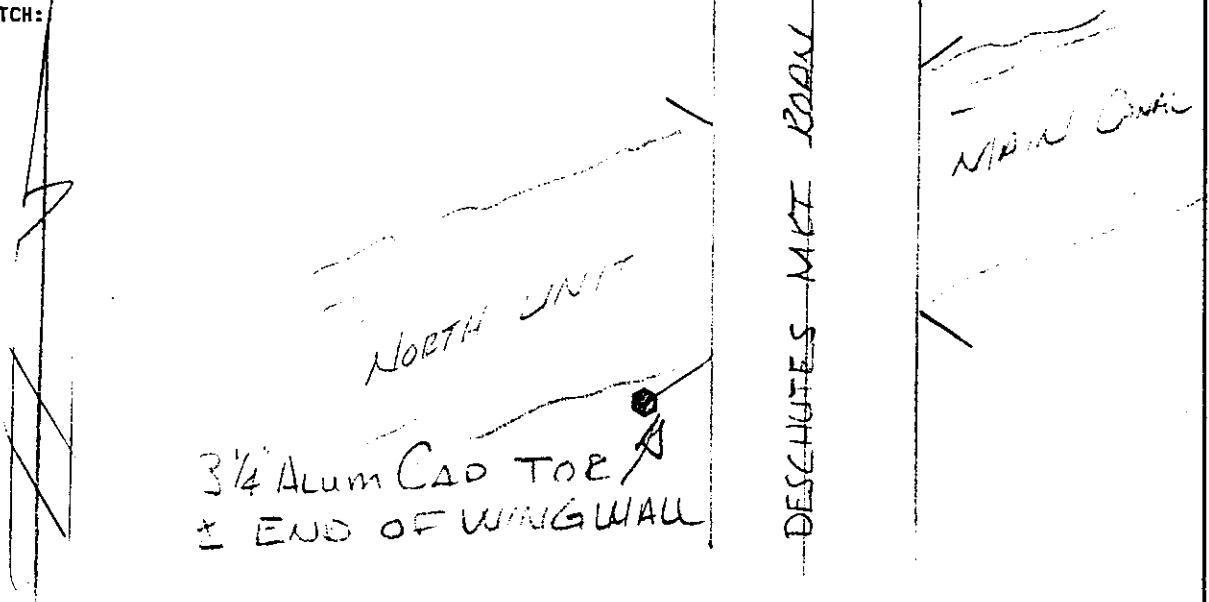
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>GIS 12</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°03'56.493393"	ONE SIGMA ERROR
Longitude:	121°15'36.406295"	
Northing:	388520.2997	0.009
Easting:	3306104.5514	0.007
Convergence:	+0°00'58.1380"	
Scale Factor:	1.000160042555	
Ellipsoid Height:	3524.4414	0.016
Orthometric Height:	3588.7945	0.030
Geoid Height:	-64.353	

CONTROL MARK DATA

NAME OF MARK: GIS 100 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

MARK: GIS 100

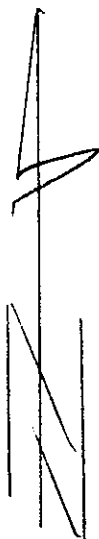
HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°05'23.787414"	
Longitude:	121°15'31.642074"	
Northing:	397361.4612	0.011
Easting:	3306449.8311	0.011
Convergence:	+0°01'01.4783"	
Scale Factor:	1.000160047505	
Ellipsoid Height:	3400.812	0.019
Orthometric Height:	3465.352	0.031
Geoid Height:	-64.54	

CONTROL MARK DATA

NAME OF MARK: GOSNEY COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



GOSNEY RD

3" BRASS CAP
 IN CONC.
 DOWN 0.3'

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

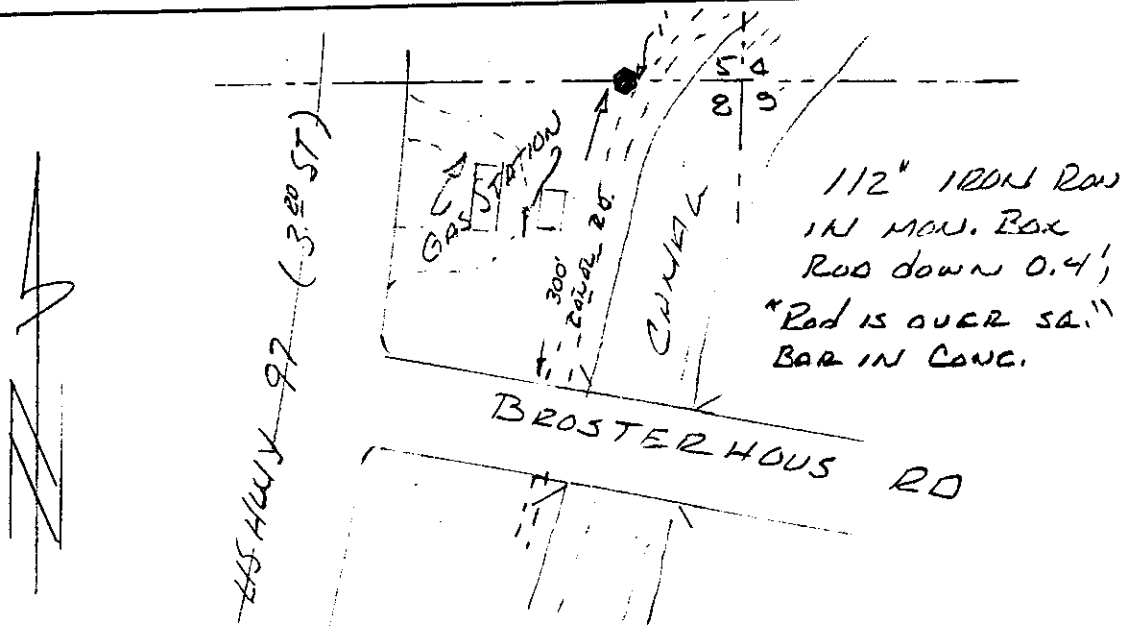
GEODITIC AND MAPPING COORDINATES

<u>MARK: GOSNEY</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'42.152661"	ONE SIGMA ERROR
Longitude:	121°11'35.980009"	
Northing:	374926.5287	0.006
Easting:	3323676.8895	0.006
Convergence:	+0°03'45.1987"	
Scale Factor:	1.000160640171	
Ellipsoid Height:	3589.3979	0.015
Orthometric Height:	3653.3597	0.018
Geoid Height:	-63.9618	

CONTROL MARK DATA

NAME OF MARK: JOHN COUNTY: DESCHUTES
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON
 DATE OF MARK: 1987 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: CS 10335

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

<u>MARK: JOHN</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°02'13.316267"	ONE SIGMA ERROR
Longitude:	121°18'13.536336"	
Northing:	378070.4665	0.006
Easting:	3294627.3122	0.006
Convergence:	-0°00'51.1168"	
Scale Factor:	1.000160032963	
Ellipsoid Height:	3668.6574	0.014
Orthometric Height:	3732.8355	0.016
Geoid Height:	-64.1781	

CONTROL MARK DATA

NAME OF MARK: K030 COUNTY: DESCHUTES
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1979 COUNTRY: U.S.A.
LOCATION: SECTION 10 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 1

MARK SKETCH:

DESTROYED
BY LAND
DEVELOPER

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

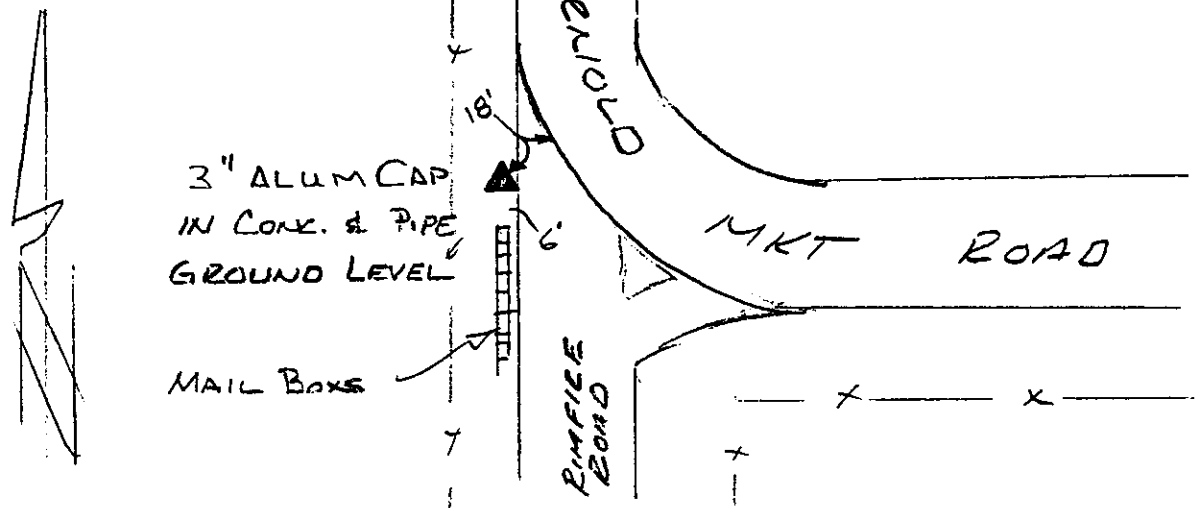
MARK: K030 HORIZONTAL ORDER: FIRST

Latitude:	<u>44°01'25.163098"</u>	ONE SIGMA ERROR
Longitude:	<u>121°15'50.742892"</u>	
Northing:	<u>373193.5219</u>	<u>0.013</u>
Easting:	<u>3305061.1784</u>	<u>0.013</u>
Convergence:	<u>+0°00'48.1306"</u>	
Scale Factor:	<u>1.000160029252</u>	
Ellipsoid Height:	<u>3666.123</u>	<u>0.021</u>
Orthometric Height:	<u>3730.1579</u>	<u>0.021</u>
Geoid Height:	<u>-64.0349</u>	

CONTROL MARK DATA

NAME OF MARK: KR20 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 23 TOWNSHIP 18S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

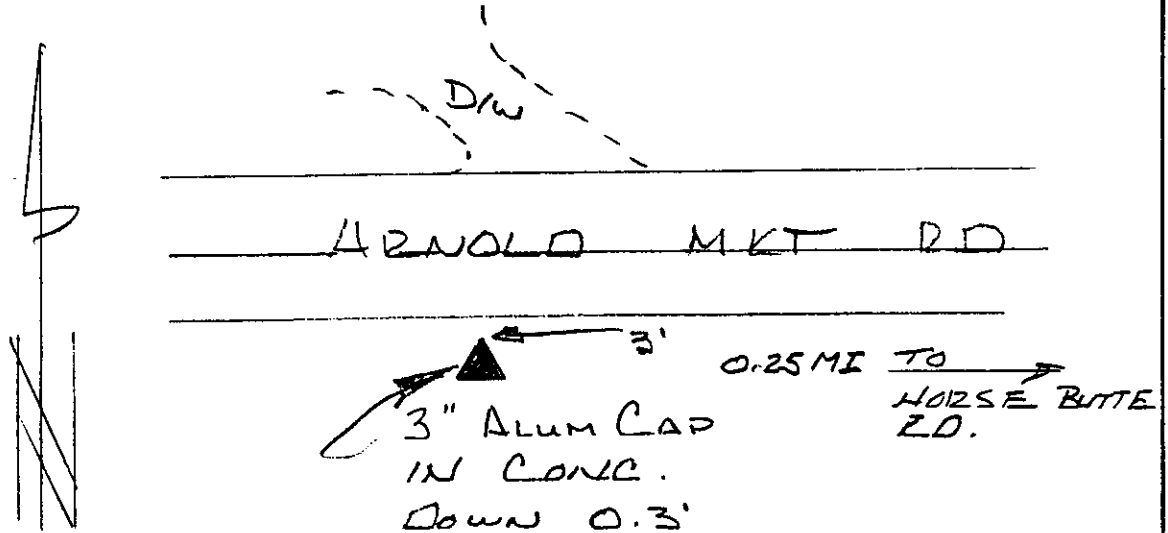
GEODITIC AND MAPPING COORDINATES

<u>MARK: KR20</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'50.089118"	ONE SIGMA ERROR
Longitude:	121°14'38.721904"	
Northing:	363566.4946	0.008
Easting:	3310328.9182	0.008
Convergence:	+0°01'38.1351"	
Scale Factor:	1.000160121831	
Ellipsoid Height:	3691.8231	0.016
Orthometric Height:	3755.5887	0.018
Geoid Height:	-63.7656	

CONTROL MARK DATA

NAME OF MARK: KR40 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 24 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

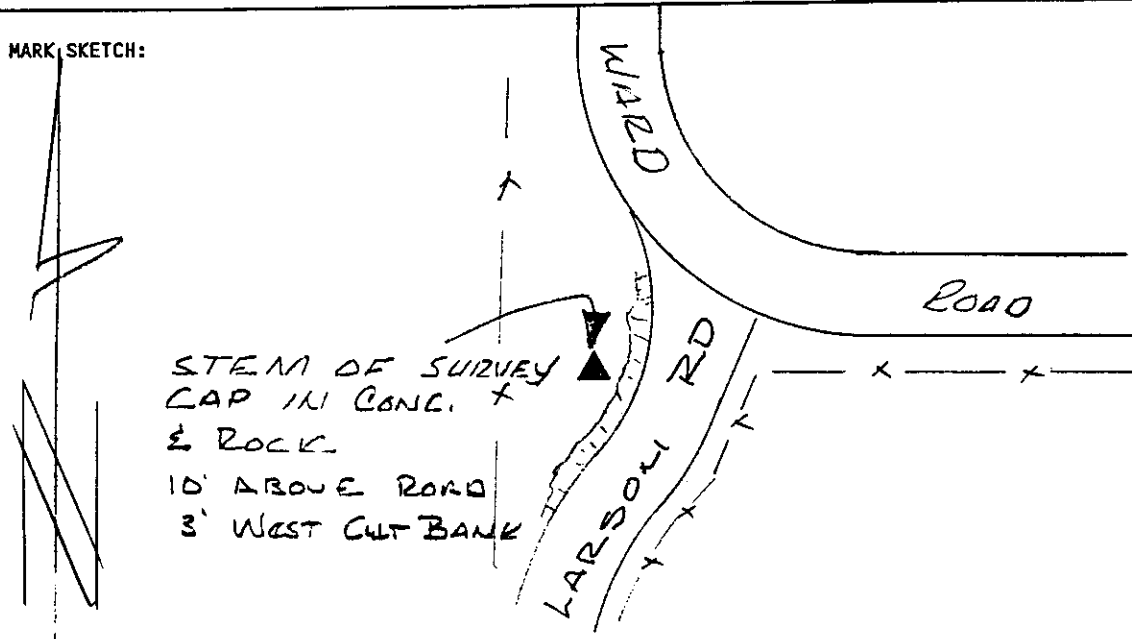
GEODITIC AND MAPPING COORDINATES

<u>MARK: KR40</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	43°59'35.268645"	ONE SIGMA ERROR
Longitude:	121°13'45.075944"	
Northing:	362067.7324	0.009
Easting:	3314251.9887	0.009
Convergence:	+0°02'15.3888"	
Scale Factor:	1.000160231954	
Ellipsoid Height:	3774.5271	0.018
Orthometric Height:	3838.2369	0.019
Geoid Height:	-63.7098	

CONTROL MARK DATA

NAME OF MARK: L020 COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 12 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

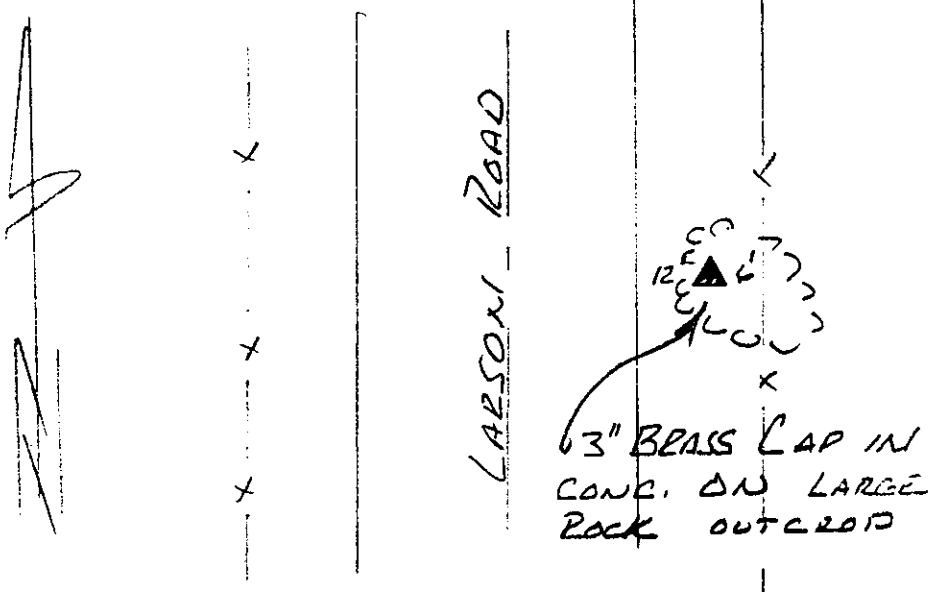
GEODITIC AND MAPPING COORDINATES

<u>MARK: L020</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°01'44.716559"	ONE SIGMA ERROR
Longitude:	121°14'01.280597"	
Northing:	375177.2028	0.007
Easting:	3313059.2833	0.007
Convergence:	+0°02'04.2142"	
Scale Factor:	1.000160194753	
Ellipsoid Height:	3680.0808	0.017
Orthometric Height:	3744.1049	0.019
Geoid Height:	-64.0241	

CONTROL MARK DATA

NAME OF MARK: LARSON COUNTY: DESCHUTES
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
 DATE OF MARK: 1979 COUNTRY: U.S.A.
 LOCATION: SECTION 13 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

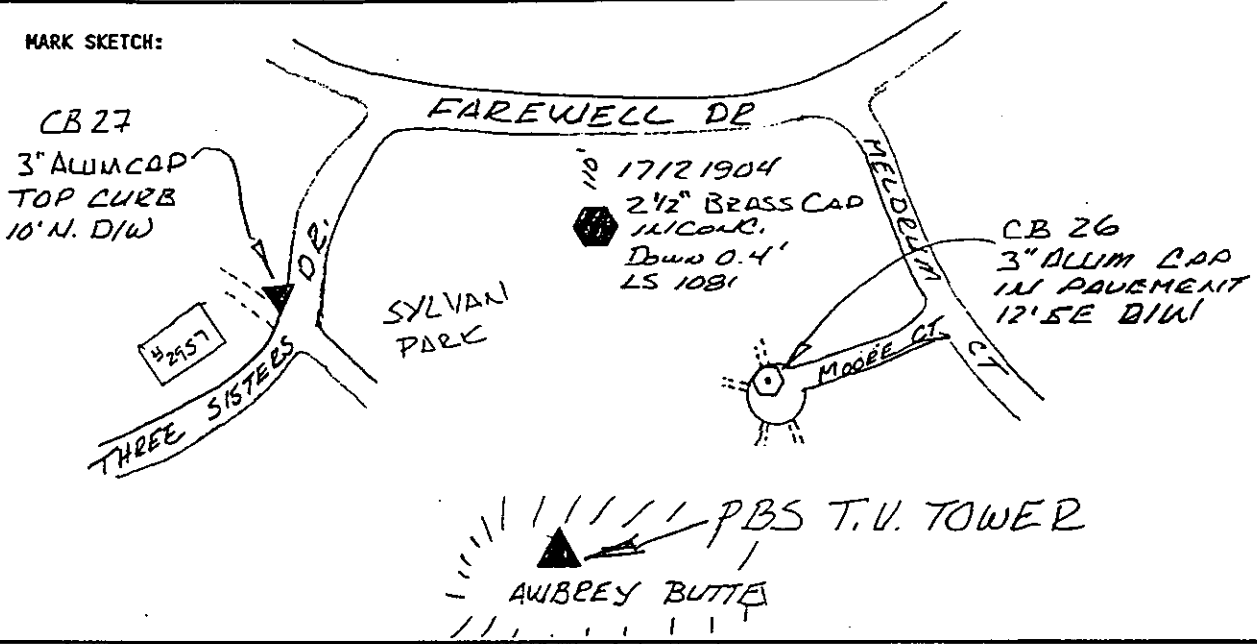
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>LARSON</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°00'59.141120"	ONE SIGMA ERROR
Longitude:	121°14'01.666723"	
Northing:	370561.3906	0.008
Easting:	3313033.8419	0.008
Convergence:	+0°02'03.9175"	
Scale Factor:	1.000160193996	
Ellipsoid Height:	3711.3236	0.022
Orthometric Height:	3775.2515	0.023
Geoid Height:	-63.9278	

CONTROL MARK DATA

NAME OF MARK: P.B.S. TV TOWER COUNTY: DESCHUTES
 MARK SET BY: OREGON PUBLIC BROADCASTING STATE: OREGON
 DATE OF MARK: 1985+- COUNTRY: U.S.A.
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 8

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

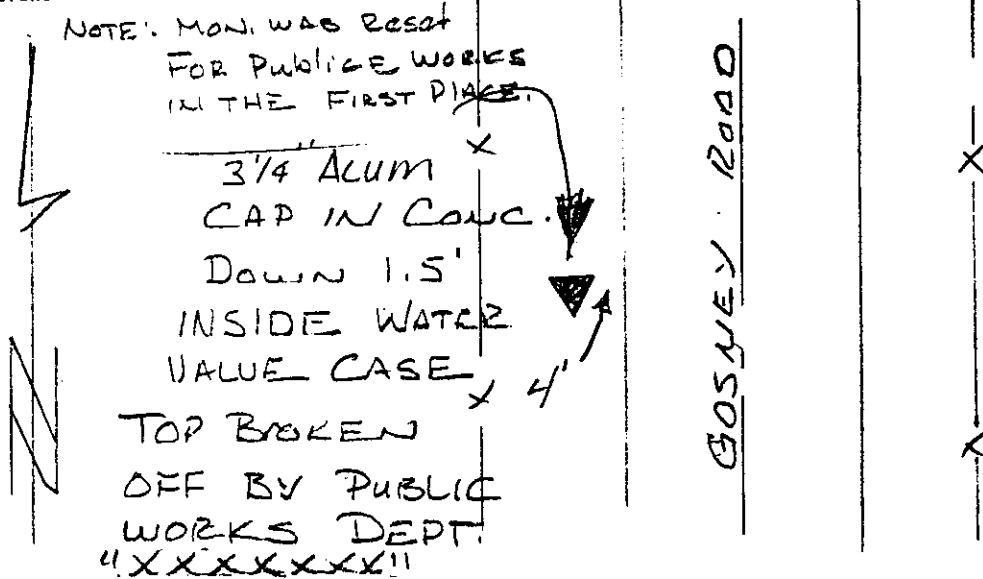
GEODITIC AND MAPPING COORDINATES

<u>MARK: P.B.S. TV TOWER</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°04'39.901477"	ONE SIGMA ERROR
Longitude:	121°20'00.249426"	
Northing:	392919.7668	0.076
Easting:	3286839.6966	0.031
Convergence:	-0°02'05.3876"	
Scale Factor:	1.000160197776	
Ellipsoid Height:	0	NOT-K
Orthometric Height:	0	NOT-K
Geoid Height:	-64	

CONTROL MARK DATA

NAME OF MARK: R020 RESET COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 20 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

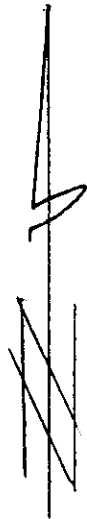
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>R020</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	43°59'46.767572"	ONE SIGMA ERROR
Longitude:	121°11'38.033041"	
Northing:	363240.4004	0.010
Easting:	3323539.5439	0.010
Convergence:	+0°03'43.6423"	
Scale Factor:	1.000160632770	
Ellipsoid Height:	3722.7038	0.024
Orthometric Height:	3786.4136	0.026
Geoid Height:	-63.7098	

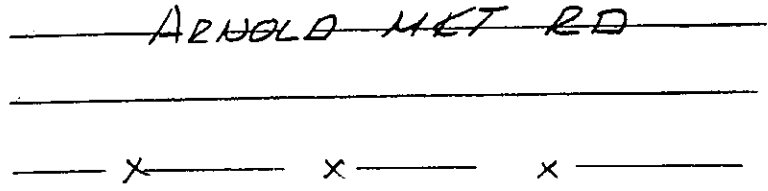
CONTROL MARK DATA

NAME OF MARK: R030 RESET COUNTY: DESCHUTES
MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
DATE OF MARK: 1988 COUNTRY: U.S.A.
LOCATION: SECTION 19 TOWNSHIP 18S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 1

MARK SKETCH:



3/4" Alum. CAP
IN CONC. DOWN 1.6 FT
INSIDE WATER VALVE
Box
7' — S



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

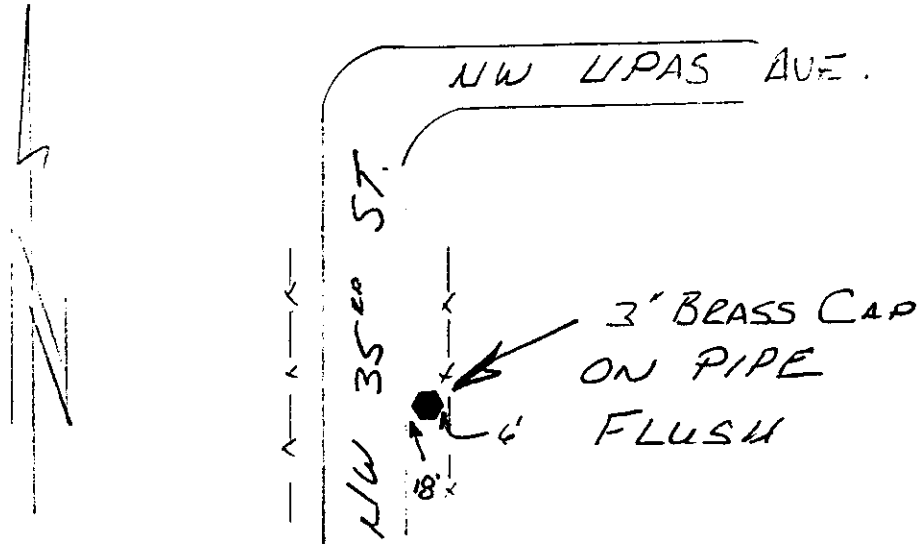
GEODITIC AND MAPPING COORDINATES

<u>MARK: R030</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	43°59'35.713185"	ONE SIGMA ERROR
Longitude:	121°12'48.844928"	
Northing:	362115.8422	0.009
Easting:	3318363.315	0.009
Convergence:	+0°02'54.4457"	
Scale Factor:	1.000160385081	
Ellipsoid Height:	3791.488	0.019
Orthometric Height:	3855.1872	0.021
Geoid Height:	-63.6992	

CONTROL MARK DATA

NAME OF MARK: RED 13 (DEA) COUNTY: DESCHUTES
 MARK SET BY: D. E. A. STATE: OREGON
 DATE OF MARK: 1993 COUNTRY: U.S.A.
 LOCATION: SECTION 5 TOWNSHIP 15 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 12

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

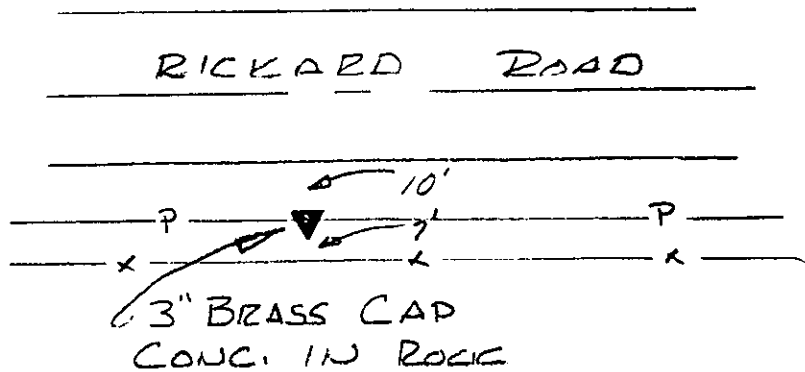
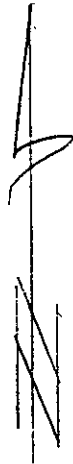
GEODETIC AND MAPPING COORDINATES

<u>MARK: RED 13 (DEA)</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°18'18.081553"	ONE SIGMA ERROR
Longitude:	121°12'32.608699"	
Northing:	475790.7738	0.012
Easting:	3319447.7929	0.012
Convergence:	+ 0°03'06.7670"	
Scale Factor:	1.000160431876	
Ellipsoid Height:	2827.7381	0.018
Orthometric Height:	2893.0792	0.041
Geoid Height:	-65.3411	

CONTROL MARK DATA

NAME OF MARK: RICKARD COUNTY: DESCHUTES
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON
DATE OF MARK: 1979 COUNTRY: U.S.A.
LOCATION: SECTION 19 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEOIDIC AND MAPPING COORDINATES

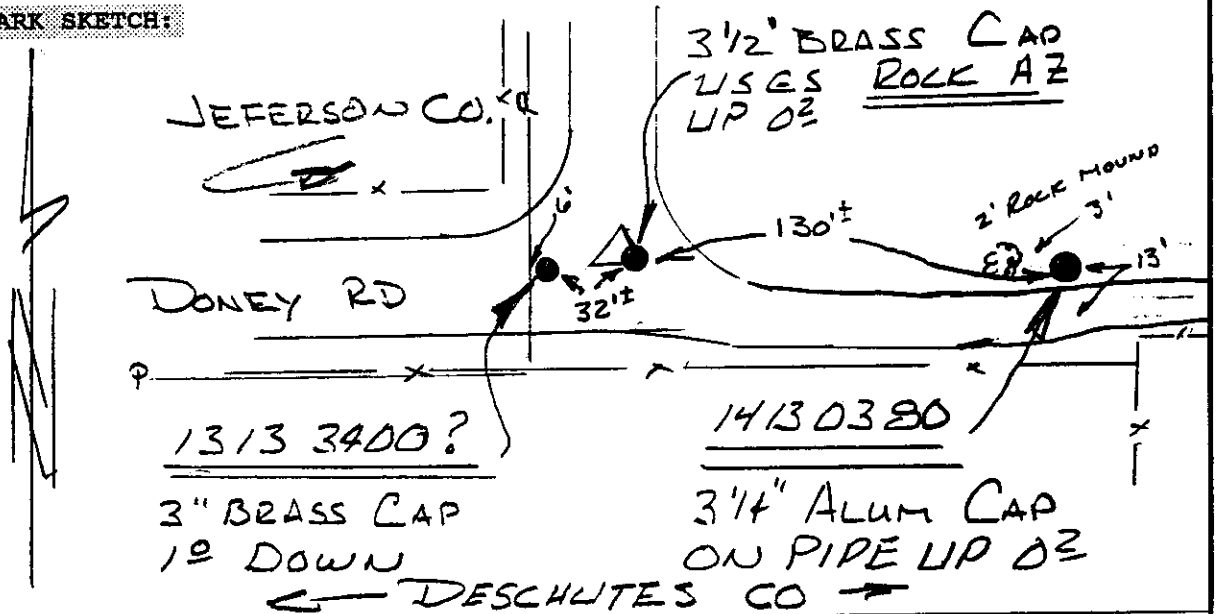
MARK: RICKARD HORIZONTAL ORDER: FIRST

Latitude:	44°00'27.320871"	ONE SIGMA ERROR
Longitude:	121°13'04.213054"	
Northing:	367341.6305	0.007
Easting:	3317235.5171	0.007
Convergence:	+0°02'43.8139"	
Scale Factor:	1.000160339232	
Ellipsoid Height:	3734.4876	0.018
Orthometric Height:	3798.3209	0.020
Geoid Height:	-63.8333	

MARK DATA SHEET

NAME OF MARK: ROCK AZ 1945 **COUNTY:** JEFFERSON
MARK SET BY: U.S. C. & G.S. **STATE:** OREGON
DATE OF MARK: 1945 **COUNTRY:** U.S.A.
LOCATION: SECTION 34 TOWNSHIP 13 S RANGE 13 E
REFERENCE: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 400OSSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

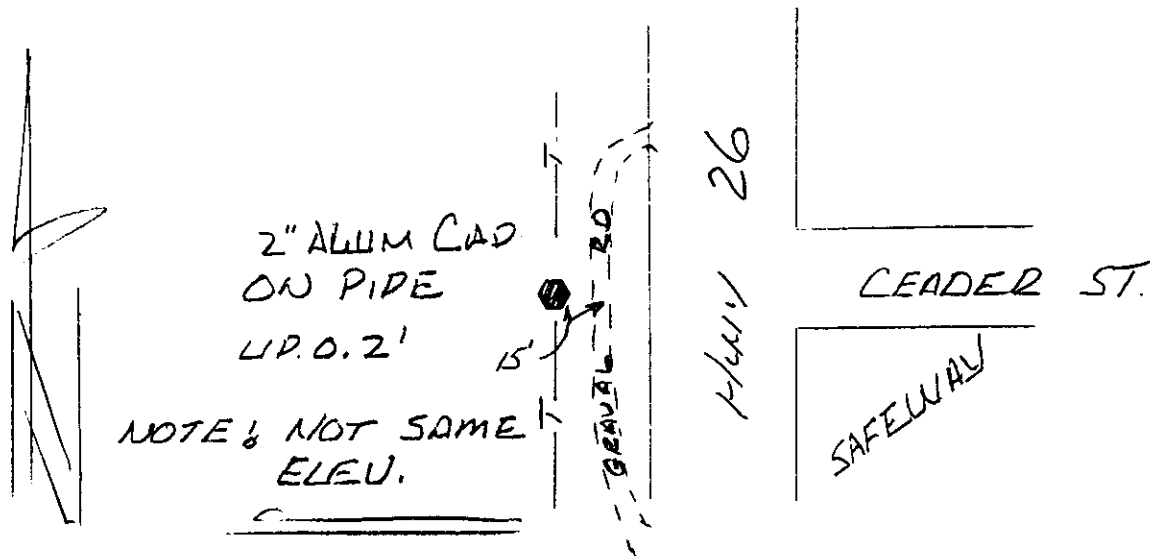
GEODETIC AND MAPPING COORDINATES

MARK:	ROCK AZ 1945	HORIZONTAL ORDER:	FIRST	ONE SIGMA ERROR
Latitude:	44°23'26.274518"	Northing:	507017.905	0.020
Longitude:	121°10'07.596667"	Easting:	3329951.122	0.017
Convergence:	+0°04'48.4955"	Ell Height:	2690.00	0.050
Scale Factor:	1.000161024321	Ortho Height:	2755.00	0.058
Combined Factor:	1.00003246	Geoid Height:	-65.00	

CONTROL MARK DATA

NAME OF MARK: ROD 1 COUNTY: JEFFERSON
 MARK SET BY: ~~ME~~ LS 2208 STATE: OREGON
 DATE OF MARK: ~~ME~~ 1994 COUNTRY: U.S.A.
 LOCATION: SECTION 2 TOWNSHIP 11 S. RANGE 13 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# ~~NONE~~ 941915

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

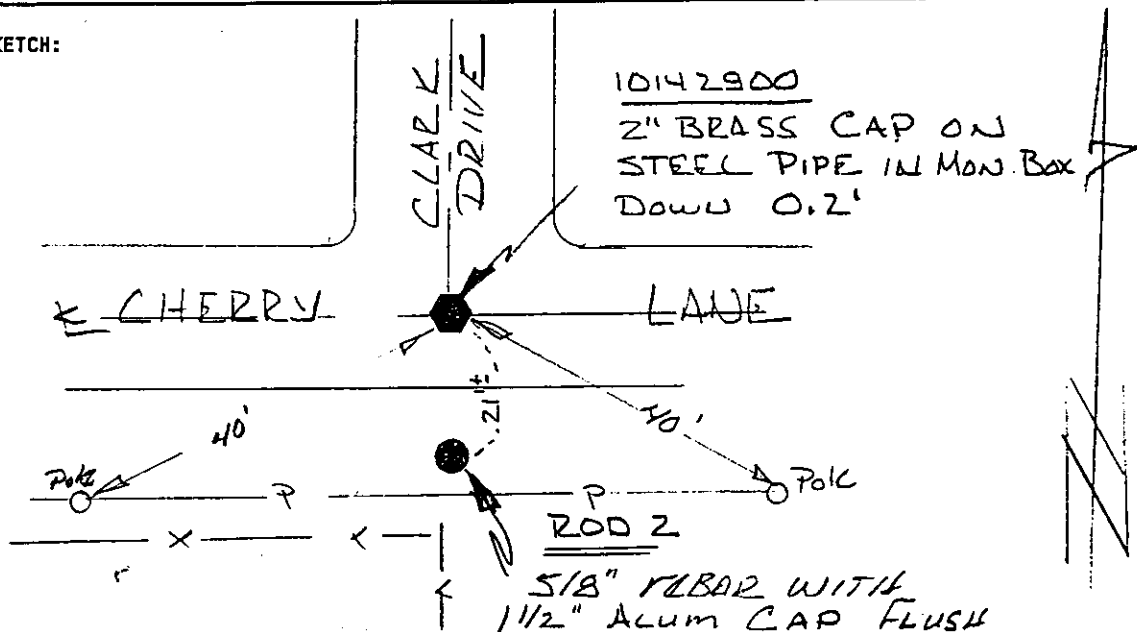
GEODETTIC AND MAPPING COORDINATES

<u>MARK: ROD 1</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°38'35.577089"	ONE SIGMA ERROR
Longitude:	121°07'47.417855"	
Northing:	599135.0321	0.018
Easting:	3339958.7287	0.018
Convergence:	+ 0°06'28.2944"	
Scale Factor:	1.000161823089	
Ellipsoid Height:	2234.3084	0.025
Orthometric Height:	2300.4991	0.045
Geoid Height:	-66.1907	

CONTROL MARK DATA

NAME OF MARK: ROD 2 COUNTY: JEFFERSON
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON
 DATE OF MARK: 1992 COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 10 S. RANGE 14 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: MF# NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1994
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

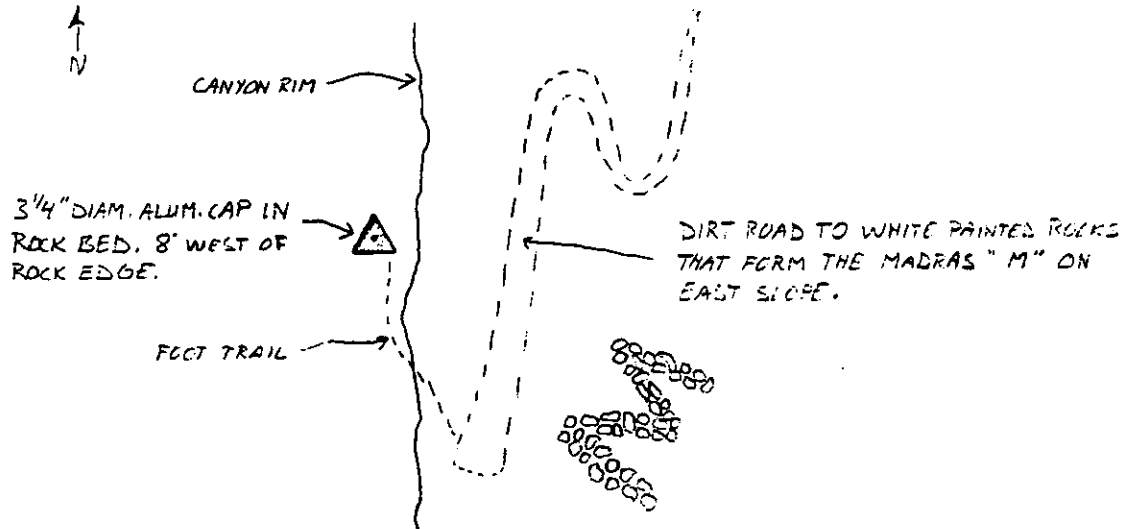
GEODETIC AND MAPPING COORDINATES

<u>MARK:</u> <u>ROD 2</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°39'51.606021"	ONE SIGMA ERROR
Longitude:	121°05'33.408077"	
Northing:	606856.4095	0.023
Easting:	3349631.3272	0.022
Convergence:	+ 0°08'02.6422"	
Scale Factor:	1.000162812512	
Ellipsoid Height:	2326.8783	0.034
Orthometric Height:	2392.93	0.083
Geoid Height:	-66.0516	

MARK DATA SHEET

NAME OF MARK: SKYLER **COUNTY:** JEFFERSON
MARK SET BY: LS 2208 GARY DEJARNATT **STATE:** OREGON
DATE OF MARK: 1995 **COUNTRY:** U.S.A.
LOCATION: SECTION 11 TOWNSHIP 11 S RANGE 13 E
REFERENCE: SURVEY NFF# 950871

MARK SKETCH:



DATA COMPUTED BY: W.C. KAUFFMAN LAND SURVEYOR, LS 1031 **DATE:** 1995
METHOD-EQUIPMENT: GPS-TRIMBLE 4000SSE GEODETIC **ADJUSTED WITH:** TRIMNET

HORIZONTAL DATUM: NAD 83 (91) **VERTICAL DATUM:** NAVD 29
PROJECTION: TRANSVERSE MERCATOR **ZONE:** CENTRAL OREGON LCS
CENTRAL MERIDIAN: W 121° 17' 00.00" **ORIGIN NORTHING:** 0.00F
LATITUDE OF ORIGIN: N 43° 00' 00.00" **ORIGIN EASTING:** 3,300,000.00F
LINEAR UNITS: INTERNATIONAL FOOT **SCALE ALONG MERIDIAN:** 1.0001600

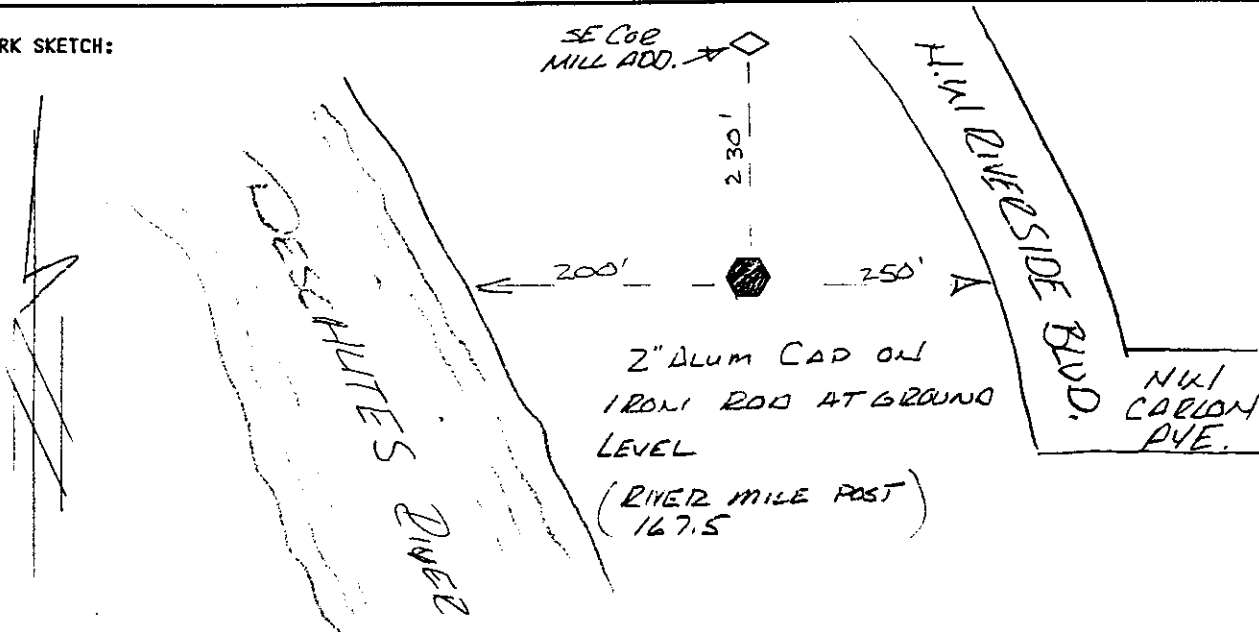
GEODETIC AND MAPPING COORDINATES

MARK: SKYLER	HORIZONTAL ORDER: FIRST	ONE SIGMA ERROR
Latitude: 44°38'00.126984"	Northing: 595540.031	0.036
Longitude: 121°08'19.900484"	Easting: 3337616.182	0.022
Convergence: +0°06'05.4055"	Ell. Height: 2392.24	0.068
Scale Factor: 1.000161615604	Ortho. Height: 2458.44	0.070
Combined Factor: 1.00004728	Geoid Height: -66.20	

CONTROL MARK DATA

NAME OF MARK: USCE COUNTY: DESCHUTES
 MARK SET BY: DAVID EVANS & ASSOCIATES STATE: OREGON
 DATE OF MARK: 1984 COUNTRY: U.S.A.
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 9

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>USCE</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'06.007082"	ONE SIGMA ERROR
Longitude:	121°19'19.426446"	
Northing:	383408.6414	0.011
Easting:	3289815.7782	0.011
Convergence:	-0°01'36.9442"	
Scale Factor:	1.000160118440	
Ellipsoid Height:	3534.1231	0.016
Orthometric Height:	3598.425	0.018
Geoid Height:	-64.3019	

CONTROL MARK DATA

NAME OF MARK: WB 23 COUNTY: DESCHUTES
MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
DATE OF MARK: 1991 COUNTRY: U.S.A.
LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
REFERENCE NUMBER: NONE

MARK DESCRIPTION:

MARK SKETCH:

DESTROYED BY ODOT ROAD CONSTRUCTION

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODETTIC AND MAPPING COORDINATES

			ONE SIGMA ERROR
WB23	Latitude	N 44°02'08.475581"	
	Longitude	W 121°18'20.298696"	
	Scale Factor	1.000160039306	
	Convergence	0°00'55.8161"	
	Northing(y)	377580.3377	0.012530F
	Easting (x)	3294133.1102	0.012511F
	Ellipsoid Height	3670.1840	0.014643F
	OrthoMetric Height	3734.3524	0.018861F
	Geoid Height	-64.1684	0.011889F

CONTROL MARK DATA

NAME OF MARK: WB 24 COUNTY: DESCHUTES
 MARK SET BY: OREGON HIGHWAY DIVISION STATE: OREGON
 DATE OF MARK: 1991 COUNTRY: U.S.A.
 LOCATION: SECTION 8 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK DESCRIPTION:

MARK SKETCH:

DESTROYED BY ODOT ROAD CONSTRUCTION

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1991-1992

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

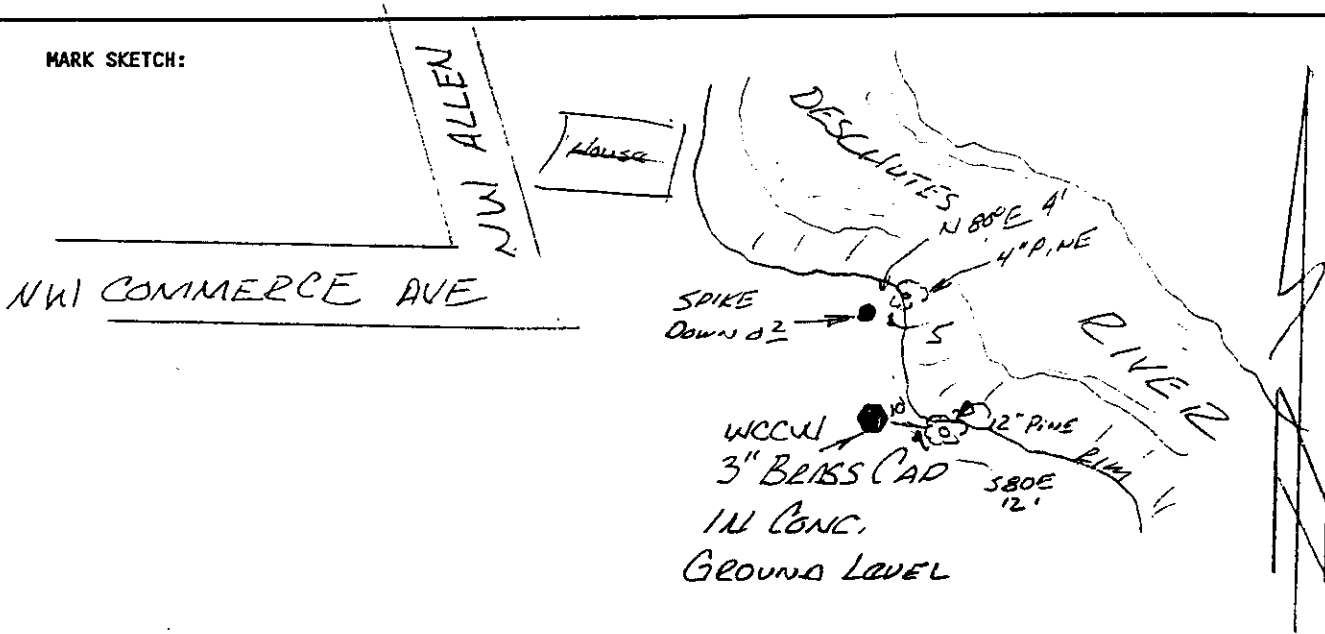
GEODETTIC AND MAPPING COORDINATES

		ONE SIGMA ERROR
WB24	Latitude	N 44°01'46.826539"
	Longitude	W 121°18'42.034079"
	Scale Factor	1.000160063478
	Convergence	0°01'10.9168"
	Northing(y)	375388.2473
	Easting (x)	3292544.2969
	Ellipsoid Height	3712.3323
	OrthoMetric Height	3776.4464
	Geoid Height	-64.1141
		0.012457F
		0.012256F
		0.014775F
		0.019307F
		0.012428F

CONTROL MARK DATA

NAME OF MARK: WCCW COUNTY: DESCHUTES
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON
 DATE OF MARK: 1979 +/- COUNTRY: U.S.A.
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: NONE

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

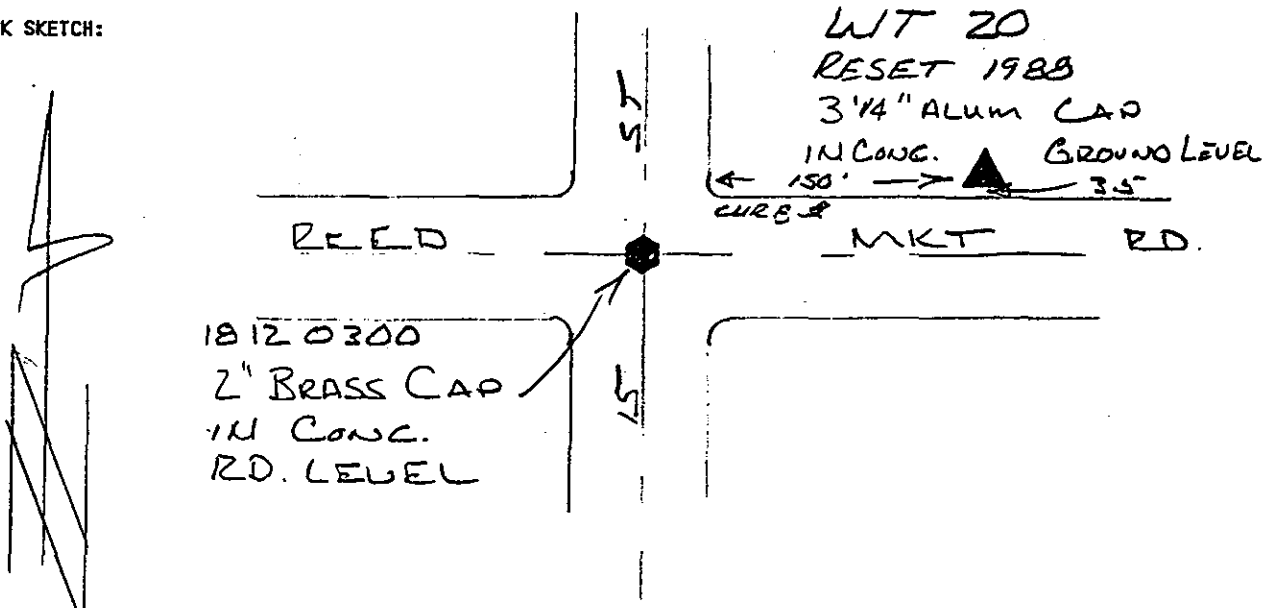
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>WCCW</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.828211"	ONE SIGMA ERROR
Longitude:	121°19'27.686543"	
Northing:	383289.5389	0.020
Easting:	3289212.3708	0.018
Convergence:	-0°01'42.6869"	
Scale Factor:	1.000160132891	
Ellipsoid Height:	3552.8805	0.030
Orthometric Height:	3617.1784	0.031
Geoid Height:	-64.2979	

CONTROL MARK DATA

NAME OF MARK: WT20 RESET 1988 COUNTY: DESCHUTES
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON
 DATE OF MARK: 1988 COUNTRY: U.S.A.
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1993
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>WT20</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°02'13.299191"	ONE SIGMA ERROR
Longitude:	121°16'59.277056"	
Northing:	378068.0713	0.008
Easting:	3300052.8195	0.008
Convergence:	+0°00'00.5025"	
Scale Factor:	1.000160000003	
Ellipsoid Height:	3668.32	0.018
Orthometric Height:	3732.4847	0.020
Geoid Height:	-64.1647	